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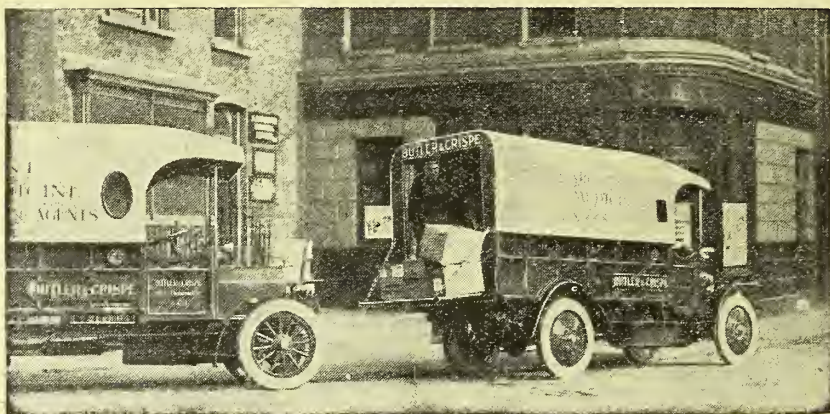
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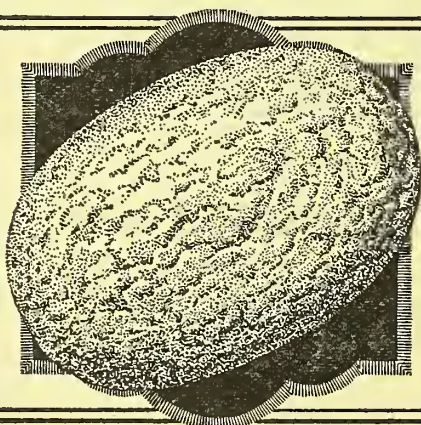
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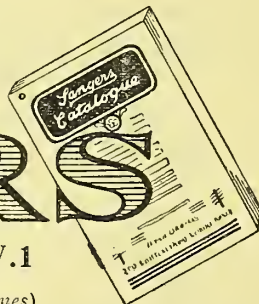
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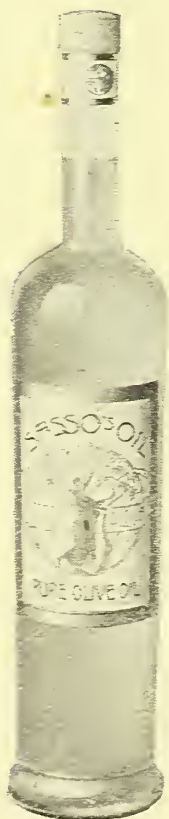
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	Total Cost	£1 17 6
Sales:—3 doz. 50's at 1/3d. each	£2 5 0
1½ „ 25's „ 7½d. „	11 3
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	Total Sales	£3 17 3

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Moorland Aspirin Tablets are the safe and reliable brand for you and your customers

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for all purposes.

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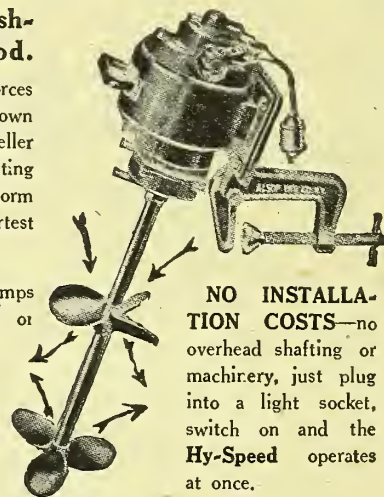
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Your mixing problem solved—by Hy-Speed

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The top propeller forces the liquids or solids down and the bottom propeller forces them up—resulting in a perfectly uniform mix, and in the shortest possible time.

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WE MAKE A GOOD BOTTLE AT A LOW PRICE.
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A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

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The resulting evenness, smoothness and uniformity of ingredient, places an Ayrton Ointment in a class all its own.

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*Manufacturing Chemists
and all users of*

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should investigate the merits of the



*We are prepared to submit adequate samples
so that users may make full tests for themselves.*

**DEXTRINE IN 18 GRADES, FARINA, STARCHES
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A complexion soap.		
PROLACTUM	10/-	1/-
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ALLACITE OF ORANGE BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM	22/6	2/6
A hair tonic.		
CLEMINITE	22/6	2/6
For a face lotion.		
COLLIANDUM	22/6	2/6
For a face tint.		
PERGOL	22/6	2/6
A deodorant.		
TEKKO PASTE	22/6	2/6
Camphor cream.		
STALLAX	13/6	1/6
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For clearing the skin.		
PHEMINOL	36/-	4/-
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For obesity.		
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It keeps the hair healthy, and
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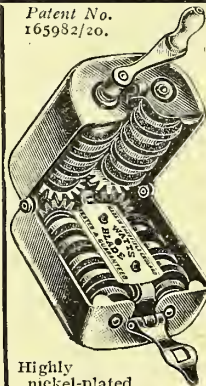
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No troublesome fixing. Drop blade on
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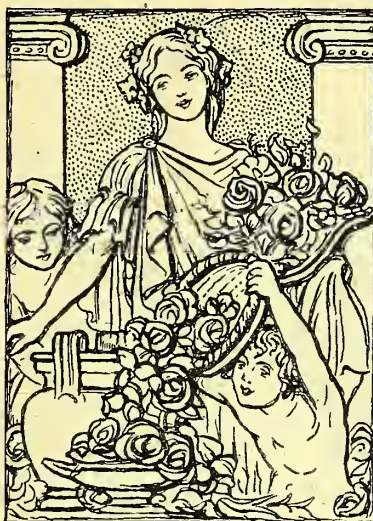
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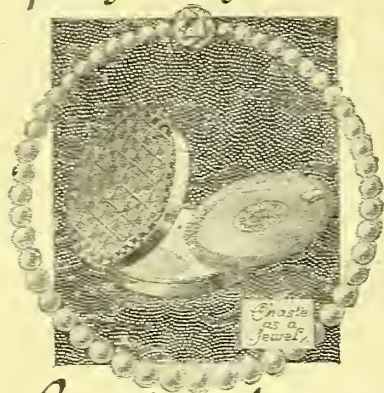
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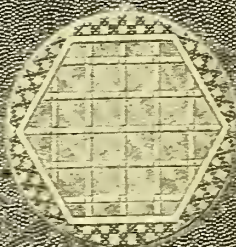
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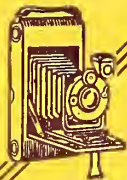


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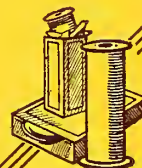


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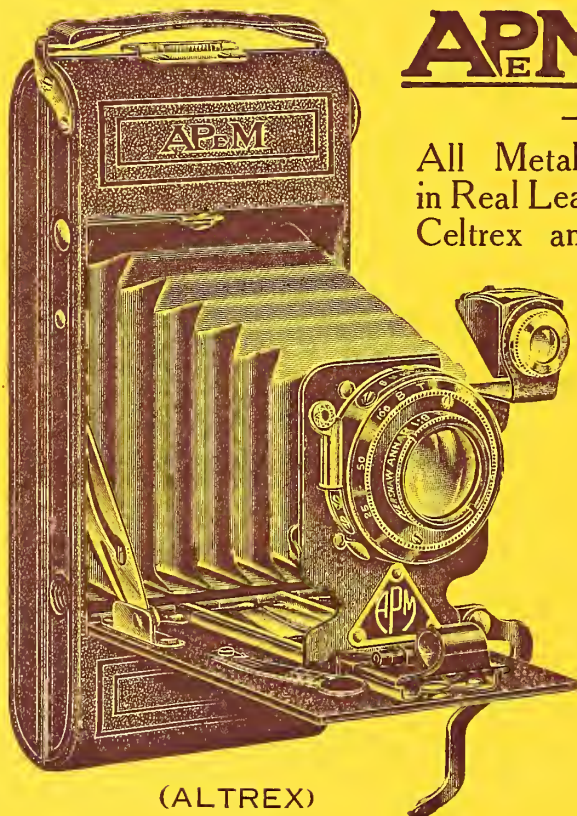
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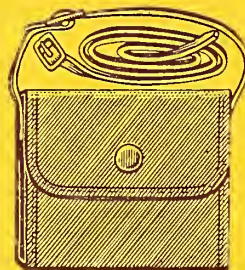
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that will
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Use these new cartons this year, and your business will carry the stamp of progress and enterprise. You will find, too, that sales will benefit all round.

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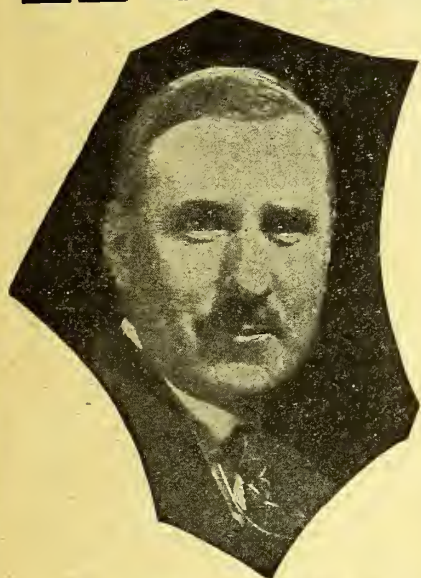
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The Ensign Snapshot Service works for the Trade only

Here's my big EXHIBITION OFFER ON *Butylip*



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Nature
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1 PARCEL No. 1.
1 doz. 2/6 Butylip at 20/-... .. £ s. d.
BONUS:— $\frac{1}{2}$ doz. 1 0 0

Less 10 per cent., payable in 30 days 2 0

Cost	..	..	..	..	18 0
Sells	..	..	..	..	2 5 0
Profit	..	..	..	..	1 7 0

2 PARCEL No. 2.
6 doz. 6d. Shampoos at 4/- doz. £ s. d.
(13 supplied as 1 dozen). 1 4 0
1 doz. 2/6 Butylip at 20/- doz. 1 0 0
BONUS:— $\frac{1}{2}$ doz. 2/6 Butylip. 2 4 0

Less 10 per cent., payable in 30 days 4 5

Cost	..	..	..	..	1 19 7
Sells	..	..	..	..	4 4 0
Profit	..	..	..	..	2 4 5

3 PARCEL No. 3.
6 doz. 6d. Shampoos at 4/- doz. £ s. d.
(13 supplied as 1 dozen). 1 4 0
 $\frac{1}{2}$ doz. 1/9 Butylip at 16/- doz. 8 0
 $\frac{1}{2}$ doz. 2/6 Hair Waving Lotion at 22/-
doz. 5 6
1 doz. 1/6 Parfum Butylip at 13/- doz. 13 0
 $\frac{1}{2}$ doz. 2/6 Butylip at 20/- doz. 10 0
 $\frac{1}{2}$ doz. 1/6 Brilliantine at 12/- doz. 12 0
 $\frac{1}{2}$ doz. 1/3 Henna Barettes at 8/- doz. 4 0
BONUS:— $\frac{1}{2}$ doz. 2/6 Butylip.
 $\frac{1}{2}$ doz. 1/3 Henna Barettes. 3 16 6

Less 10 per cent., payable in 30 days 7 8

Cost	..	..	..	..	3 8 10
Sells	..	..	..	..	6 18 0
Profit	..	..	..	..	3 9 2

4 PARCEL No. 4.
6 doz. 6d. Shampoos at 4/- doz. £ s. d.
(13 supplied as 1 dozen). 1 4 0
1 doz. 1/9 Butylip at 16/- doz. 16 0
(13 supplied as 1 dozen).
 $\frac{1}{2}$ doz. 2/6 Hair Waving Lotion at 22/- doz. 11 0
1 doz. 1/3 Parfum Butylip at 11/- doz. 11 0
1 doz. 1/6 " " at 13/- doz. 13 0
 $\frac{1}{2}$ doz. 5/- " " at 40/- doz. 6 8
 $\frac{1}{2}$ doz. 2/6 Butylip at 20/- doz. 10 0
1 doz. 2/6 Brilliantine at 12/- doz. 12 0
 $\frac{1}{2}$ doz. 1/3 Henna Barettes at 8/- doz. 4 0
BONUS:— $\frac{1}{2}$ doz. 2/6 Butylip.
1 doz. 1/6 Brilliantine.
1 doz. 1/3 Henna Barettes. 5 7 8

Cost	..	..	..	..	5 7 8
Sells	..	..	..	..	10 8 3
Profit	..	..	..	..	5 0 7

HALF-DOZEN FREE WITH EVERY DOZEN

BUTYLIP will be a big seller almost as soon as you get the stock on your counter. Press and magazine advertising is timed to commence at the end of this month. BUTYLIP will prove a winner!

To insure, in your interest as well as my own, that none of your customers will be disappointed when they call on you for BUTYLIP, I am making you this special offer for stocking. **HALF-DOZEN FREE WITH EACH DOZEN YOU ORDER**, but only one parcel to each shop. This offer terminates on May 18th. definitely.

Please call and see me at the Exhibition, if you can. If not, just post the form below.

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Dear Sirs—Please send at once (carriage paid) Bonus Parcel (state whether No. 1, 2, 3 or 4 is required) with display material.

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Important French Manufacturers of NATURAL PERFUMES

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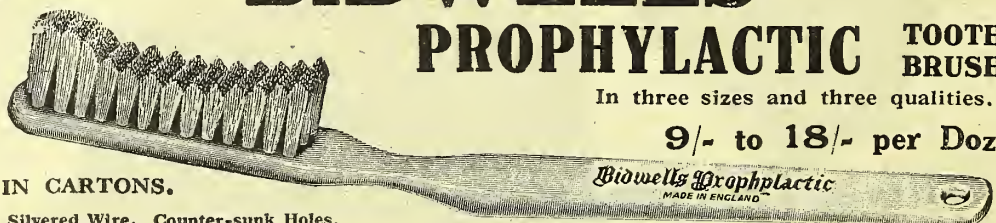
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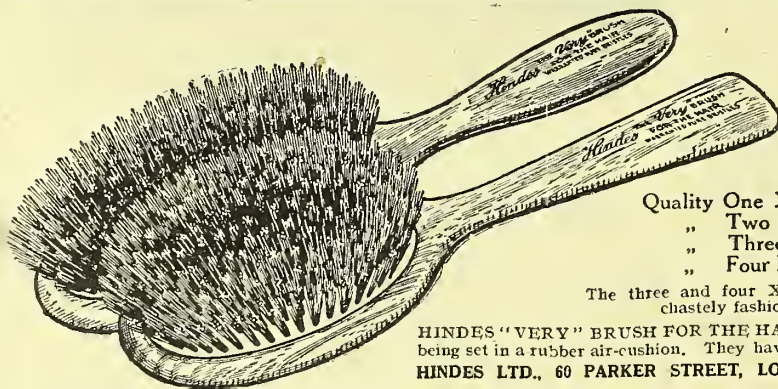
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Silvered Wire. Counter-sunk Holes.

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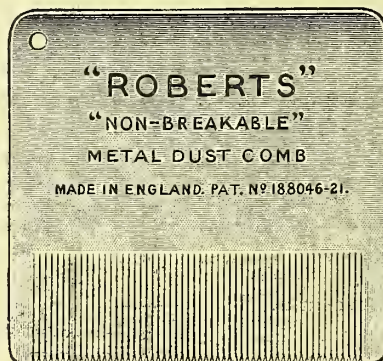
Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
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THE NEW SKIN TONIC.

A superior toilet cream, non-greasy, suitable for both winter and summer use, which enjoys a ready sale, wherever introduced.

Packed in opaque porcelain jars, each in a decorated Carton.

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Minimum retail price 1/6 per jar.

Also in Decorated Collapsible Tubes, 6/6 per doz.

*Both these lines are on P.A.T.A.
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Usual discount and 3 Lambpuffs given with each box until further notice.

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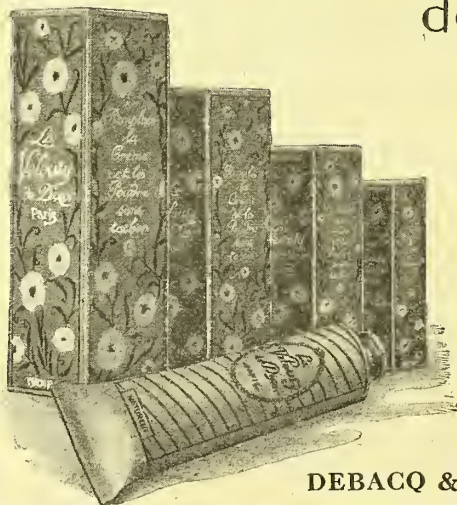
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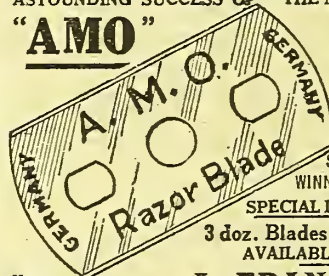
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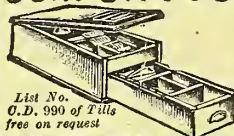
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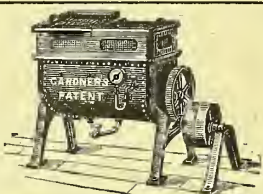


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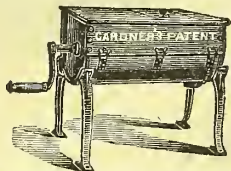
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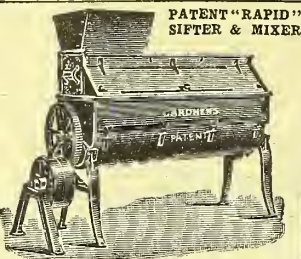
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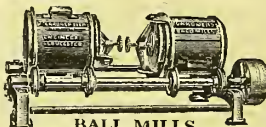
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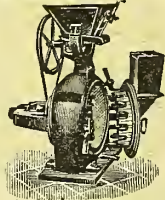
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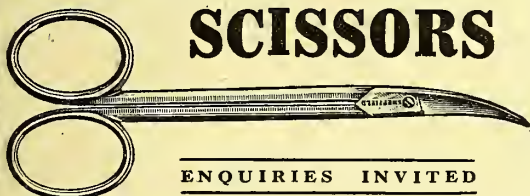
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Business Changes

A NEW BUSINESS has been opened by The Cross Pharmacy, Ltd., at 3/5 Market Square, Woodhouse, Sheffield.

MARTYNS STORES, LTD., chemists, 26 Queen Street, Wolverhampton, have opened a new branch at 21 West Bromwich Street, Walsall.

UNDER the style of The Modern Pharmacy, a chemist's business has been opened at 126B Hamlet Court Road, Westcliff, Southend-on-Sea.

WILSON & KITCHIN, LTD., wholesale and retail chemists, Whitehaven, have removed their business to larger premises at 18 King Street.

MR. A. V. DAY, chemist and druggist, has taken over the business lately owned by Mr. C. Adams, chemist and druggist, Woodbridge Hill, Guildford.

THE Liverpool offices of Tennant's (Lancs) Ltd. (head office: 1 Booth Street, Manchester), have been moved from The Albany, Oldhall Street, Liverpool, to 275A Burlington Street, Liverpool, N.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Safeguarding of Industries Act, 1921

The Board of Trade give notice that representations have been made to them under Section 10 (5) of the Finance Act, 1926, for exemption from duty of vanadium-silica compounds of the kind used as catalysts; also chromium hydroxide of the kind known as Guignet's green.

The Referee having recovered from his recent illness, the hearing of the complaint that calcium biphosphate (baking powder quality) has been improperly excluded from the lists of articles chargeable with duty under Part I of the Safeguarding of Industries Act, 1921, will be resumed at 11 a.m. on Wednesday, May 23. The hearing will take place in the main conference room, Board of Trade, Great George Street, Westminster, S.W.1.

Merchandise Marks Act, 1926

The report of the Standing Committee of the Board of Trade respecting the marking of tooth-brushes and shaving brushes has issued its report as a White Paper (Cmd. 3082, 2d.). The hearing was fully reported in the *C. & D.*, February 4, p. 150, February 18, p. 227, and February 25, p. 256. The Committee recommend that imported tooth-brushes and shaving brushes of all descriptions should bear an indication of origin at the time of sale or exposure for sale. They do not consider that a case has been made out for a requirement that the goods should bear an indication of origin at the time of importation.

The Board of Trade have referred to the Standing Committee an application for the marking, with an indication of origin, of the following descriptions of imported goods:—Bottles, jars and other containers of glass; lampblown ware and scientific glassware of all descriptions, including tubing and rod.

The Committee will consider whether these articles should be marked on sale or exposure for sale, and they may, at their discretion, also consider whether the articles should be marked on importation. The date of the Committee's public inquiry will be announced later.

Chemists' Exhibition

The thirty-third exhibition organised by "The British and Colonial Pharmacist" will be held at Holland Park Hall, London, W.11, on May 7-11 inclusive. The president of the Pharmaceutical Society of Great Britain (Mr. Herbert Skinner) will open the exhibition at 12.15; the following have also accepted invitations to be present:—Mr. H. P. Arthur (chairman, North British Branch of the Pharmaceutical Society); Mr. R. R. Bennett (chairman, British Pharmaceutical Conference); Mr. A. A. Dick (president, Scottish Pharmaceutical Federation); Mr. F. J. Fitzpatrick (president, Pharmaceutical Society of Ireland); Mr. J. E. French (chairman, Retail Pharmacists' Union); Mr. W. J. Hardy (vice-president, Pharmaceutical Society of Northern Ireland); Mr. Alfred Higgs (president, Proprietary Articles Trade Association); Mr. C. A. Hill (chairman, Association of British Chemical Manufacturers); Mr. D. Lloyd Howard (chairman, Drug and Fine Chemical Manufacturers' Association); Mr. N. F. Kingzett (chairman, Proprietary Association of Great Britain). Meetings will be held during the week in connection with various trade movements. Reduced fares will be granted by the railway companies to chemists and their families travelling to London for the meetings held in connection with the Exhibition. Those availing themselves of these must obtain vouchers from the Secretary of the Chemists' Exhibition, 194-200 Bishopsgate, London, E.C.2. Prizes totalling £21 will be competed for by chemists, their managers and assistants in connection with a row of illuminated shop-window displays. Any member of the retail or wholesale trade will be admitted on presentation of business card.

Inquests

Fatal poisonings recorded since our last report include two deaths from medinal. In one case, that of Mr. Frederick W. Bowman, Hastings, an open verdict was given; in the other, that of Mrs. A. E. Hirst, Eastbourne, who died at Poole, the dose taken was stated to be 125 gr., and a verdict of "Suicide while of unsound mind" was recorded.

An inquiry was resumed at Coleford, on May 2, regarding the death of Harry Pace, farmer. Mr. Frank R. Blanch, chemist and druggist, Coleford, produced his poison-register, in which was an entry on July 22 last year signed by Mrs. B. Pace for two packets of sheep dip. Mr. Wellington (representing the widow) read out ten dates in the register when Mrs. Pace or her husband had bought sheep dip between 1922 and 1926, and remarked that after the 1923 entry Mrs. Pace was marked as "known." The inquiry was adjourned.

Birmingham

Members of the Cheltenham Branch of the Pharmaceutical Society and their friends to the number of forty-five visited the mills and laboratories of Southall Brothers & Barclay, Ltd., at Saltley, on April 25. The visitors were met at New Street Station and conveyed to Saltley in motor omnibuses, where they were received by Mrs. F. M. Sharp and Mr. E. W. Mann, directors of the company, and in small parties under the charge of guides made a tour of the works. Time did not allow of every department being visited, but opportunity was found to inspect most of them. The tour finished with a brief visit to the pharmaceutical and chemical laboratories. Tea was served by the company's staff.

At a recent meeting of the Council of the Birmingham Chamber of Commerce, the Railways and Transport Committee reported that with regard to cattle medicines, embrocations and ointments by passenger train, complaint had been made that the railway companies were insisting upon owner's risk conditions in respect of those traffics when forwarded by passenger train, notwithstanding the fact that the goods were innocuous in character. The companies have directed attention to a regulation adopted by the Railway Rates Tribunal, fixing "O.R." conditions in respect of this traffic. The Committee were of the opinion that this regulation specifically refers to traffics which are poisonous or dangerous in character, and not to ordinary merchandise. They, therefore, recommended that strong representations be made to secure the requisite modification in the existing regulations. The Council approved the recommendation.

Sheffield

Chemists' accounts for Insurance dispensing during the month amounted to £2,241.

Mr. S. P. Lowe has removed an old pharmaceutical landmark by transferring his business from London Road to Bramall Lane. The late Mr. Newsholme originally lived at the London Road business.

An attempt is being made to secure a clause in the 1928 National Health Insurance Bill to provide for the superannuation of the staffs of Insurance and Pricing Committees, who are not included in the Local Government Officers Act, 1922.

Miscellaneous

NITROGEN CONFERENCE AT SEA.—An international conference of scientists, industrial leaders, chemists and agricultural experts of many nations are holding a Nitrogen Conference on board the s.s. "Lutzow," which left Venice on April 30 for a week's cruise to Corfu and other Adriatic ports.

MASSAGE LICENCE REFUSED.—On April 27 the Public Control Committee of the London County Council refused an application by Mr. W. Holder, Manchester Street, W., for a licence for a massage establishment, at which it was proposed to give treatment by means of electric blankets. Dr. W. B. Nobel said the treatment would

be unsafe in cases of fatty degeneration of the heart or mitral disease.

THE ROYAL INSTITUTION.—The annual meeting of the members of the Royal Institution was held on May 1, Dr. Mitchell Bruce (vice-president) in the chair. The annual report of the Committee of Visitors for the year 1927, testifying to the continued prosperity and efficient management of the Institution, was read and adopted. The report of the Davy Faraday Research Laboratory Committee was also read. The following were unanimously elected for the ensuing year:—*President*, the Duke of Northumberland; *Treasurer*, Sir Arthur Keith; *Secretary*, Sir Robert Robertson.

VISIT TO WORKS.—At the invitation of Burgoyne, Burdidges & Co., Ltd., manufacturing chemists, the North-East London Pharmaceutical Association visited their works and laboratories at East Ham on April 26. Three groups, each under a competent guide, meandered through the extensive buildings and were greatly interested by manufacturing processes on so vast a scale, and also in the large plant for the production of chloral hydrate. After a tour of two hours' duration, refreshments were served. The president of the Association (Mr. C. W. N. Fox) expressed in felicitous terms the visitors' thanks for their courteous reception.

IN THE COURTS.—At Feltham, on April 30, Lionel Fenton, described as a chemist, was sentenced to a month's imprisonment for assaulting a solicitor's clerk.—At Aylesbury, recently, two soldiers named Alfred E. Miller and Edward Richardson were bound over and ordered to pay costs, on a charge of stealing rubber sponges and soap from the shop of Mr. F. J. Janes, chemist and druggist, Kingsbury, Aylesbury.—At Tower Bridge Police Court, London, on May 1, Samuel Mortlock, 43, of no fixed abode, was remanded on charges which included that of stealing Ovaltine and Bovril, worth together £23, from May, Roberts & Co., Ltd., Clerkenwell Road, E.C., by means of a trick.—At Greenwich Police Court, on May 2, Edward A. W. Brome, Tranquil Vale, Blackheath, was fined £5, with £5 5s. costs, for practising dentistry without being registered.

Scottish News

Brevities

At a recently held meeting of the Morayshire District Board of Control Messrs. W. & A. Robertson, Elgin, were appointed as chemists for six months.

The annual competition for the Ayrton Saunders trophy will be held by the Scottish Chemists' Bowling Association in Dundee on June 6 at 1.30 p.m. The competition is open to rinks from all parts of Scotland, and entries should be made not later than May 30 to the Secretary, Mr. John T. Simpson, 268 Crown Street, Glasgow, C.5. Entries should be accompanied with entrance fee of 10s. per rink. Players who are unable to form rinks should send their names with the position they play and an entrance fee of 2s. 6d. per player.

Edinburgh

Mr. Max Broomberg, chemist and druggist, 168 Canon-gate, is opening a branch at 94 South Clerk Street, Edinburgh.

The Edinburgh Chemists' Golf Club held their second outing of the season over Murrayfield Golf Course on April 25. Over twenty players handed in cards for the Pinberton Gibson trophy, and the following led:—(1) A. Waugh, 76; (2) J. S. B. Heddle, 77; (3) D. Barrie, 78; (4) W. S. Spence, 80.

The Edinburgh Pharmacy Athletic Club are holding their annual sports at Easter Road, Edinburgh, on May 22. In addition to the usual events open to the pharmacists, an ambitious programme of open events is to be staged, followed by a fireworks display. Entry forms for races and football competition can be obtained from the secretary, Mr. J. C. Henderson, 2 Summerhall Square Edinburgh. Arrangements for the rink competition in the bowling section are nearly completed. Details may be had from the secretary.

Irish News

Belfast

Mr. A. W. Mann, Ph.C., and Mr. W. H. Howe, Ph.C., have been elected sidesmen of St. Thomas's Parish Church, Belfast.

Mr. W. E. Stevenson, M.P.S.N.I., The Cregagh Pharmacy, Woodstock Road, has been elected a vice-president of the Queen's Island Camera Club.

The Senate of Queen's University, Belfast, has decided to institute the following new offices: Professorship of pharmacology and therapeutics; lectureships in materia medica and therapeutics and experimental psychology; lectureship and directorship of extra-mural studies; and assistantships in materia medica and therapeutics.

Voting papers have just been distributed by the North Irish Pharmacists' Association on the question of reciprocity between the Pharmaceutical Society of Northern Ireland and Great Britain. The question on the paper is:—Are you in favour of reciprocity between the Pharmaceutical Society of Northern Ireland and Great Britain? It will be recalled that at the annual meeting of the Association recently a long discussion took place on the question. The Pharmaceutical Society of Ireland had no power under the Pharmacy Act to grant registration to the licentiates of other societies. In the Northern Pharmacy Act power was taken to do so, and the time has now arrived when this power so granted is being put into operation. Reciprocal arrangements are being entered into with the various colonies. On the question of making a reciprocity arrangement with Great Britain there was a difference of opinion, and it was thought advisable, considering the gravity of the issue involved, that every pharmaceutical chemist on the register in Northern Ireland should be asked to state definitely "Yes" or "No" to the question of the advisability of this step.

Dublin

The staff of Boileau & Boyd, Ltd., Bride Street, made a presentation on April 28 to Mr. Donald W. P. Boyd, M.A., F.C.S., on his approaching marriage. The ceremony of presentation of a handsome bureau, with album suitably inscribed and containing the names of the participants, was made by the secretary (Mr. Fraser), who mentioned that Mr. Boyd represented the third generation of his family to be associated with the business, which has been in existence for well over 200 years. Mr. Boyd, in reply, expressed his thanks, saying that he accepted the gift not only as a personal gift to himself, but as a recognition of the cordial relations which had always existed between the principals of the firm and the staff.

Retail Pharmacists' Union

Executive Meetings

MEETINGS of the Executives of the Retail Pharmacists' Union and the Chemists' Defence Association were held at 4/5 Queen Square, London, W.C.1, on April 24 and 25, Mr. J. E. French in the chair.

ELECTION OF OFFICERS

Mr. J. E. French was appointed chairman for the ensuing year, Mr. H. Gilleghan vice-chairman, and Mr. P. F. Rowsell treasurer. A resolution was passed expressing the appreciation of the Executive for the valuable service Mr. Martin, the retiring chairman, had given the Union during his term of office. The chairman welcomed the newly elected members of the Executive, Mr. Carr and Sir Leonard Rowland.

MARKETING AND TRADE PRICES COMMITTEE

A letter was received from a firm who act as marketing advisers to the proprietors of new articles, asking for the co-operation of the Committee in their work. It was agreed that the R.P.U. would assist in connection with new products which were definitely coming on the market.

MALT AND OIL

The chairman of the Marketing Committee reported that his Committee had met the Association of Malt

Manufacturers. The following wholesale prices had been fixed for the coming season; an attempt to fix corresponding retail prices had failed:—

	$\frac{1}{2}$ lb.	1 lb.	2 lb.	4 lb.	7 lb.
Malt and oil, jars	7/4½	11/-	19/6	36/6	61/9
Malt extract, jars	7/1½	10/6	18/6	34/6	58/9
Malt and oil, tins	—	9/6	17/6	—	—
Malt extract, tins	—	9/-	16/6	—	—
1 lb. containers, malt and oil	—	8/6	—	—	—

For quantities, a reduction by means of a scale of discounts would be made at the end of the season on the quantities actually bought.

ASPIRIN TABLETS

The Marketing Committee reported that arrangements with the tablet manufacturers were well advanced regarding the marketing of a standardised brand and quality of aspirin tablets.

DISTRIBUTION COMMITTEE

The chairman of the Central N.H.I. Committee reported that the Distribution Committee had arranged that a discount of 20 per cent. be continued in respect of January, February and March, and 10 per cent. for April and May. The Committee would meet again on June 25 to consider the necessity of any further discounts being made.

CONFERENCE OF PHARMACEUTICAL COMMITTEES' REPRESENTATIVES

The Executive decided to call a conference of the representatives of Pharmaceutical Committees in July to discuss the N.H.I. position.

DISPENSING-TESTING SCHEME

The secretary reported that the Ministry of Health had been asked to reduce the number of samples taken in view of the satisfactory results which had been obtained; but the Ministry had stated that there were only sufficient samples being taken to cover the chemists' work in two and a half years, and it would, in their opinion, be inadvisable to make any change before that period had elapsed.

C.D.A. Affairs

The secretary reported that there had been twelve cases outstanding since the last meeting, but three of them might be considered closed and the following two cases had been settled:—Injuries caused by cycling errand boy (settled for £2 1s. 3d.); injuries caused to customer through falling down trap-door (settled for £55 5s.). Eight new claims had arisen during the month, of which one in respect of clothing damaged by a broken bottle had been settled for 13s., and another for damage to clothing caused by cycling errand boy had been settled for 23s. Thirty-eight new members were elected.

Veterinary Solution of Iodine

The Retail Pharmacists' Union has been in communication with the Commissioners of Customs and Excise regarding the use of industrial methylated spirit for the preparation of a veterinary solution of iodine to replace the use of ordinary tincture of iodine made with rectified spirit. The following letter, dated April 11 and signed "A. J. Dedman," has been received by the R.P.U.:—

With reference to your letters of the 16th and 27th ultimo, I am directed by the Commissioners of Customs and Excise to state that they will be prepared to sanction the use of industrial methylated spirits in making the preparation formulated, viz:—

Iodine	...	...	10 grams
Potassium iodide	...	...	6 grams
Phenol	...	...	2 grams
Camphor	...	...	2 grams
Distilled water	...	...	10 millilitres
Industrial methylated spirits up to 100 millilitres			

provided that it is labelled as suggested in your letter of the 16th ultimo. The camphor may be omitted from the formula if preferred. I am to add that the authority of the Commissioners must be obtained by each trader before such spirits are used in making this preparation.

Legal Reports

Entries Omitted.—At Bristol Police Court, on April 23, Mr. Thomas Buxton, chemist and druggist, Queen's Road, Clifton, was summoned for failing to keep entered in the appropriate register during the months of January and February the sale of certain "dangerous" drugs, to wit, cocaine, heroin, morphine, and medicinal opium, as required by the Dangerous Drugs Act, 1920, and the Dangerous Drugs and Poisons (Amendment) Act, 1923. His assistant, Mr. Cecil John Lynn, was summoned for aiding and abetting. Mr. G. D. Wansbrough, for the defence, said that Mr. Buxton had been away in London at the bedside of his son (who subsequently died) when five of the relevant prescriptions were made up, and the assistant had inadvertently neglected to make the entries. Mr. Buxton was fined £5, and Mr. Lynn £2.

Order for Costs of Inquiry.—In the Chancery Division of the High Court, London, on April 30, Mr. Justice Romer heard an application by the official receiver that the costs of an inquiry directed by his lordship should be borne by Mr. Noel Ducker, the respondent to a misfeasance summons in the matter of Inecto, Ltd. Mr. Cartwright Sharp, for the official receiver, said that in May 1927 his lordship found as a fact that the respondent had caused a large quantity of hair dye to be removed from the premises of Inecto, Ltd., immediately prior to the liquidation of the company and the purchase of its assets by the respondent. His lordship directed an inquiry by the registrar as to what goods had been improperly removed and what was the pecuniary advantage derived by the respondent or the company he formed. The value of the goods was found by the registrar to be £2,298 19s. 3d., and this sum the respondent had paid. The costs of the inquiry were reserved, and he now asked that the respondent be ordered to pay them. His lordship made the order.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

J. MAUD & Co., LTD. (P.C.).—Capital £1,500. Objects: To carry on the business of chemists, druggists, dyers, oil and colourmen, etc. R.O.: 84 New North Road, N.1.

ESTOSA (REGD.) PERFUMERY Co., LTD. (P.C.). Capital £5,000. Objects: To acquire the business of a perfumery specialist carried on by A. P. Holt at 89 Cheapside, Liverpool, as the "Estosa (Regd.) Perfumery Co.," together with the trade-mark "Estosa." R.O.: 89 Cheapside, Liverpool.

H. E. BEVIS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of pharmacists, chemists, druggists, herbalists, photographic dealers, opticians, stationers, etc. The directors are H. E. Bevis and J. C. W. Price. R.O.: 172 Albany Street, Regent's Park, N.W.1.

DONOVAN SURGICAL Co., LTD. (P.C.).—Capital £4,000. Objects: to carry on the business of chemists, druggists, dyers, oil and colourmen, makers of and dealers in proprietary articles of all kinds, surgical and scientific apparatus and materials, etc. R.O.: "Teviot," Longbridge Road, Barking.

JOHNSON BROS (WRINEHILL), LTD. (P.C.).—Capital £5,000 in £1 shares. Objects: To acquire the business of manufacturers and vendors of patent medicines carried on by S. B. Johnson and H. Johnson at Wrinehill, Staffs, as "Johnson Bros." The first directors are S. B. Johnson and H. Johnson.

C. B. HENDERSON, LTD. (P.C.).—Capital £500. Objects: To acquire from T. L. Scott, for £1,100, the freehold dwelling house, shop and premises in Front Street, Trimdon Colliery, co. Durham, and the goodwill of the chemists' and druggists' business carried on thereon, etc. R.O.: Trimdon Colliery, Trimdon Station, co. Durham.

J. CROOKS & SONS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a retail grocer, chemist and druggist now carried on by Joseph Crooks, G. M. Crooks and J. E. Crooks at Shildon, Durham, as "J. Crooks & Sons." The first directors are J. Crooks, G. M. Crooks and J. E. Crooks. R.O.: 2 Alma Road, Shildon, Durham.

PUNFIELD & BARSTOW, LTD. (P.C.).—Capital £6,000. Objects: To acquire the business of a celluloid merchant heretofore carried on at 57 Basinghall Street, E.C., by F. W. Punfield, and to carry on the business of celluloid and rubber merchants, manufacturers or dealers, or factors' agents for the sale thereof, advertisement appliance manufacturers, dealers and agents, etc. The permanent directors are F. W. Punfield (chairman) and T. E. Barstow. R.O.: 57 Basinghall Street, E.C.2.

EAST LANCASHIRE CHEMICAL Co., LTD. (P.C.).—Capital £30,000. Objects: To acquire the businesses hitherto carried on by the late B. C. Sellars as a chemical manufacturer under the style of the "East Lancashire Chemical Co.," at Edge Lane, Droylsden, Manchester, and as a Portland cement manufacturer under the style of "B. Carrington Sellars," at Fairfield, Manchester. The subscribers are Mrs. D. G. Sellars, T. C. Sellars, and T. Holt. Solicitors: A. & G. W. Fox, 53 Princess Street, Manchester.

NORDAC, LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a chemical engineer and manufacturer of chemical plant carried on by Norman Swindin at Reno Works, Rosslyn Crescent, Wealdstone, together with the trade mark or name "Nordac," to carry on the same and the business of chemical manufacturers and businesses relating to the storage and transport of corrosive acids. The first directors are N. Swindin (chairman) and F. S. Newsham. R.O.: Reno Works, Rosslyn Crescent, Wealdstone.

STANDARD SOAP Co., LTD. (P.C.).—Capital £25,000. Objects: To acquire the business of soap manufacturers, pharmaceutical, manufacturing and general chemists and druggists, previously carried on at Ashby-de-la-Zouch by a company bearing the same name as this company, to adopt an agreement with A. McMeekin and to carry on the said business and that of manufacturers, refiners and preparers of, and dealers in all kinds of oils, etc. The subscribers are R. Harris and G. G. Buckeridge. Solicitors: Buckeridge & Braune, 3/4 Clement's Inn, W.C.2.

RELiance RUBBER Co., LTD.—A company has been formed (Reliance Rubberware, Ltd.) to take over the business of this company, which was founded thirty-nine years ago. Subscriptions are invited for 260,000 preferred ordinary shares of 5s. each and 260,000 deferred shares of 1s. each.

SOLIDOL CHEMICAL Co., LTD.—A public issue is being made of 150,000 8 per cent. Participating Preference shares of 10s. each at par, and 150,000 Ordinary shares of 1s. each at par. The company, which will have an issued capital of £125,000, takes over the patents of certain proprietary preparations and assets connected therewith, the purchase price being £7,500 cash, and £42,500 in 1s. shares.

WRAYSBURY CHEMICAL WORKS, LTD.—At a meeting held in London on April 2 it was resolved that this company be wound up voluntarily. Mr. G. F. Damer, 14 Old Jewry Chambers, London, E.C., was appointed liquidator, and a meeting of creditors will be held at the above address on April 20.

UNITED PHOTOGRAPHERS, LTD.—The formation of a new company, called United Photographers, Ltd., is announced. Kodak, Ltd., of Liverpool, and Thompson & Capper, Ltd., of Liverpool, have joined forces and taken over the photographic works of J. T. Chapman, Ltd., of Manchester. The new company now has large works in Liverpool and Manchester, and in a few weeks' time large works in Leeds will also be in operation.

PARKES CHEMISTS, LTD.—The report for the year ended February 29, 1928, states that the sum of £790 17s., required for the depreciation of leases, has been met, as usual, out of revenue, as well as £1,224 19s. 7d. expended on repairs, renewals, and dilapidations. After allowing for the above, there

remains a balance of £8,771 1s. 7d., out of which the directors have appropriated for the fixtures depreciation reserve fund £556 17s., leaving a net available balance of £8,214 4s. 7d., from which has been paid an interim dividend on the Preference shares, at the rate of 6 per cent. per annum, less tax, and an interim dividend on Ordinary shares of 2½ per cent., less tax. The balance remaining is £5,523 8s. 2d., and from this the final dividend on Preference shares for the year, amounting to £1,190 16s. 5d., was paid on March 20 last; and it is now recommended that a final dividend of 5 per cent., less tax, be paid on the Ordinary shares for the half-year, making, with the interim dividend of 2½ per cent., less tax, already paid, 7½ per cent. for the year; leaving a balance of £1,332 11s. 9d. to be carried forward. Upon passing the present accounts and the adoption of the report, the reserve fund will stand at £28,904 13s. 2d.

Compulsory Liquidation

Re Mercer Ward, Ltd., 302-8 Regent Street, W.—Under the compulsory liquidation, Mr. G. D. Pepys, Official Receiver and Liquidator, reports that the liabilities amount to £1,954, against assets valued at £141, and the deficiency with regard to contributories is estimated at £2,312, the issued capital being 500 ordinary shares of £1 each. The company was formed in January, 1921, for the purpose of carrying on the distribution of proprietary medicines. It was promoted by Lt.-Col. J. W. Kynaston, who states that after demobilisation in 1919 he started in practice as a medical practitioner in Welbeck Street, specialising in the treatment of diseases of the nose and throat, he had special prescriptions of his own for the treatment of such diseases, and formed the company for the purpose of placing these medicines on the market. Capt. C. Maitland-Ward had come into touch with him through his practice, and agreed to join him in the venture. At first the business consisted in supplying medicines to wholesale and retail firms, who had been supplied with particulars of the company's specialities which were made up from prescriptions acquired from Kynaston for £350, of which £250 was paid in March 1921, and £100 in June 1927. The specialities sold comprised "Noviod" brand tablets, "Haline" brand inhalation and nasal balm, ear powder, vegetable antiseptic mixture and lozenges ("Vegantox" brand), stainless iodine oil, and nasal salt. Lt.-Col. Kynaston attributes the failure and insolvency to over-advertising in the early part of 1926, the full value of which was never recouped owing to the general strike and coal strike, and to the stoppage of credit facilities.

Private Arrangement

Re Thomas Birtles, trading as Tom Birtles, pharmacist, 149 Euston Road, Morecambe.—The creditors of the above were called together on April 26 at Morecambe, when it was reported that the liabilities totalled £566 11s. 2d., made up as follows:—Trade creditors £422 12s., bank overdraft £102 19s. 2d., and cash creditors £31. The assets comprised cash in hand, £4 3s. 6d.; stock at cost, £390 5s., estimated to realise £220; fixtures, £75, valued at £20; and book debts, £5 0s. 5d., making a total of £249 3s. 11d. After allowing £45 5s. for preferential claims, the net assets were £203 18s. 11d. or a deficiency of £352 12s. 3d. No offer was submitted on behalf of the debtor, and it was decided that the matter should be dealt with under a deed of assignment with Mr. Parkin S. Booth, of the Association of Manufacturing Chemists, Exchange Chambers, Bixteth Street, Liverpool, and Mr. T. Atkinson, Morecambe, as joint trustees, with a committee. It was stated that efforts would be made to sell the business as a going concern. The following are creditors:—United Chemical Association, Ltd., £11; Kodak, Ltd., £23; Maw. S., Son & Sons, Ltd., £15; Parke, Davis & Co., £14; Bleasdale & Co., Ltd., £11; Hirst, Brooke & Hirst, Ltd., £11; Evans, Sons Lescher & Webb, Ltd., £46; Ayrton, Saunders & Co., Ltd., £38.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30, 1927	Mar. 30, 1928	April 30, 1928
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	20 6	21 0	21 0
Amalg. Dental Co., 8% Prefd. Ord.	18 9	19 3	20 3
Deferred 5s.	4 9	4 9	6 3
Apollinaris and Johannis, Ord. £1	10 0	12 9	13 0
Ayrton, Saunders & Co., 7½% Prof.	16 0	16 0	16 6
Beechams Pills, Deferred 1s. shares	—	3 9	4 4½
Benger's Food, Ord.	35 3	39 6	39 0
Boake (A.), Roberts & Co., 5% Prof. £10	£6½	£6½	£7
Boots Pure Drug, Ord.	127 6	135 0	133 9
Boots Pure Drug, 7% "A" Profd. Ord.	23 9	23 9	23 9
Boots Cash Chemists (Southern), 6% "A" Prof.	21 9	21 9	21 9
Borax Consold., Defd. Ord.	26 9	23 9	26 6
Bovril, 6% Prof.	21 9	21 3	21 9
Ord.	25 0	24 0	24 6
Defd.	44 6	40 3	41 3
British Celanese, Ord.	90 0	88 9	120 0
7½% Prof.	33 9	34 9	36 6
British Cyanides, Ord., 2s. shares	3 10½	4 11½	6 10½
British Drug Houses, The, Ord.	16 9	20 0	19 6
British Glues and Chemicals, Ord.	4 3	4 0	5 0
8% Prof.	13 6	15 6	16 9
British Oil and Cake Mills, Ord.	30 0	31 0	31 0
British Oxygen, Ord.	29 6	33 0	32 6
British Photo. Indus., 6% Cum. Prof.	14 0	15 0	15 0
Bush (W. J.) & Co., 5% Prof. £5	62 6	60 0	60 0
Cadbury Bros., 6% Prof.	23 0	23 0	23 0
Callard, Stewart & Watt, Ord.	45 0	45 0	43 9
5½% Prof.	19 6	19 6	20 0
Crosfield (Joseph) & Sons, 6½% Prof.	20 0	20 6	20 9
Dubarry Perfumery, Ord. 1s.	10 0	9 6	9 3
7½% Prof.	21 3	20 6	21 0
Eastman Kodak Com. (no nom. value)	\$168	\$171	\$175
Evans Sons Lescher & Webb, Ord.	5 3	4 6	4 6
6% cum. part. Prof.	5 7½	5 0	5 0
Field (J. C. & J.), Ord.	12 0	13 3	13 9
7% Prof.	19 9	20 0	20 0
Gossage (William), 6½% Prof.	19 0	20 6	21 3
Groat & Co., Ord.	52 6	44 6	42 6
Heppells, 7% cum. part. Prof.	15 0	11 3	12 6
Hodders, Ord. 1s.	1 0½	1 4½	1 1½
Idris & Co., "A" Ord.	20 0	20 0	20 0
Ilford, Ltd., Ord.	35 0	37 6	41 3
6% Prof.	19 6	20 0	20 0
Imperial Chemical, 7% Prof.	25 0	25 1½	25 4½
Ord.	32 0	32 0	38 0
Defd. 5s.	9 9	10 3	14 9
Intern. Sponge Importers, 6% Prof.	10 0	11 0	10 0
Kent (G. B.) & Sons, 5½% Prof.	11 3	10 6	11 3
Knight (John), 25% Prefd. Ord.	63 9	67 6	67 6
Laporte (B.) & Co., Ltd., Ord.	17 6	17 6	18 9
Lever Bros., Ltd., 7% Prof.	20 10½	22 0	22 9
8% Prof.	20 10½	22 7½	23 3
20% Prefd. Ord. 5s.	11 3	12 6	12 9
Liebig's Ext. of Meat, Ord. £5	£16½	£18½	£17½
Mellin's Food, 6% Prof.	13 0	12 0	12 6
Mond Nickel Co., Ord.	162 6	158 9	180 0
7% Cum. Prof.	26 0	25 0	25 1½
Nathan (Joseph) & Co., 7% Prof.	15 3	16 6	17 3
8% Prefd. Ord.	8 0	8 0	8 0
National Drug and Chem. Co. of Canada, 6½% Prof.	6 0	4 6	3 0
New Transvaal Chemical Co., 6% Prof.	18 6	18 9	19 0
8% Prof.	22 6	23 3	23 0
Salt Union, Ord.	39 0	42 6	48 0
Prof.	33 9	32 6	32 6
"Sanitas," The, Co., 9% Prof.	22 6	23 9	24 3
Sanitas Trust, 10% part. Prof.	23 0	23 9	24 9
Schweppes, Ltd., Ord.	25 0	26 3	30 0
Defd.	53 3	55 0	53 0
Smith (Stephen) & Co., Ord. 5s.	11 0	12 6	12 7½
Southall Bros. & Barclay, Ord.	81 6	82 0	86 0
5% Prof.	18 6	18 9	19 0
Spratt's Patent, Ord.	50 0	56 3	58 9
Stevenson & Howell, 6½% Cum. Prof.	20 0	20 0	20 0
Taylor's (Cash Chemists) Trust, 7½% Cum. Prof. Ord.	19 0	18 6	18 9
1s. Defd.	7 9	5 7½	6 9
United Glass Bottle Man., 6% Mt.	£95½	£93	£93
Deb. Stk., £100	11 6	12 6	12 0
Vegesta, Ltd., Ord.	16 3	17 0	15 0
% Prof.	19 6	18 6	18 6
Veno Drug Co., 8% Prof.	105 0	105 0	107 6
Viroi, Ltd., Ord.	22 9	23 0	22 3
7% Prof.	10 6	10 6	11 3
White (A. J.), Ltd., Ord. 10s.	18 9	18 9	20 0
Wright, Layman & Umney, 6% Prof.	18 9	18 9	20 0

PHOTOGRAPHIC NOTES AND FORMULAS

Grainless Developer in Collapsible Tubes

DEVELOPERS in collapsible tubes are still somewhat of a novelty, and in this connection an abstract from an article by S. Blumann in the January 1928 issue of "Camera Craft" is worthy of record. The author recommends the following procedure for a grainless developer:—Grind the sulphite, metol and hydroquinone to a fine powder in a mortar, then add the carbonate, but the quantity specified in the formula must be reduced by 15 per cent. Add the bromide, and grind and mix again. Then, whether the formula includes metasulphite or not, add about a grain to the ounce (of complete solution). When the whole is ground to a fine powder add glycerin drop by drop to make a paste and fill collapsible tubes. The developer must not be used for at least thirty days, during which time some change presumably takes place. When this period has elapsed and the developer is required, mix about one inch or a little more with every ounce of water. Apparently any standard M.Q. formula can be prepared in this manner.

Lubricants and Cinema Film

It is pointed out by J. I. Crabtree and C. E. Ives, in Communication 330 from the Kodak Research Laboratories, that in the present practice of lubricating motion-picture film with wax to facilitate its passage through the projector too much wax is applied and there is a tendency for it to spread. This and other objections have been overcome by applying a solution of wax dissolved in carbon tetrachloride to the entire surface of the film and then buffing this. The result is to impart a high polish to the film surface analogous to that on polished footwear. This treatment insures sufficient lubrication, and film so treated is impervious to the effect of oil. In another communication (No. 325), by G. E. Matthews and J. I. Crabtree, it is stated that a greasy emulsion surface has a high propensity to accumulate air-bells on immersion in a developer, but these may be removed by gentle brushing if the film is developed on a continuous processing machine. The most satisfactory method of eliminating oil from the surface of motion-picture film and therefore of preventing the formation of oil spots is to immerse the film in a bath of benzene or carbon tetrachloride, squeegee, and dry thoroughly previous to development.

Preservatives for Amidol Developer

AMONG the notable methods suggested during recent years for preserving amidol developers have been by the use of glycollic acid (*C. & D.*, 1920, II, 1628) and by paraphenylenediamine (*C. & D.*, 1926, II, 517). The latter formula, which is of French origin, seems comparatively unknown in this country, while the former has not found favour probably owing to the fact that the acid is not usually stocked by chemists. Interest therefore attaches to the use of salicylic acid, a procedure advocated by a writer in a recent issue of the "Amateur Photographer." It is stated that half an ounce of the developer, after being left in the bottle for three months, was, except for being slightly slower in action, quite satisfactory. Although somewhat coloured, it showed no tendency to stain. The formula is as follows:—

Salicylic acid	...	...	...	...	12 gr.
Sodium sulphite	...	...	...	...	600 gr.
Amidol	...	...	...	...	60 gr.
Potassium bromide 10 per cent. solution	...	...	...	...	24m
Spirit	...	...	...	...	6 dr.
Water to make	...	...	...	...	7½ oz.

This makes a stock solution of amidol one grain to one drachm. When employing a working strength of two grains to the ounce of water, a factor of 12 is used.

Printing and Developing Bromides

DETERIORATION of the latent image on bromide paper between exposure and development was the subject of a practical note by H. W. Bennett in the "British Journal

of Photography" (April 13, 1928). With reference to his experiments in connection with this phenomenon, he states:—Prints were made on a cream "ordinary" paper, one in which the emulsion appears to be coated direct on a raw paper, and on a white semi-glossy paper which undoubtedly had received a preliminary baryta surfacing. The prints developed at the time of exposing were perfect in every way. One of each was developed on the following day. The print on the cream paper showed, on critical examination, a very slight falling-off in quality, but no deterioration could be detected in that taken on the baryta-surfaced paper. Prints developed one day later showed a distinct falling-off in quality in the case of the cream paper, but the baryta-coated paper still yielded the original quality. Pairs of prints were developed on the fourth, seventh and tenth days after exposure, and the deterioration increased rapidly in the case of the cream paper, until on the last the image was extremely faint, while with the white semi-glossy paper the last two prints showed only a slight loss of quality. It is worth noting that this same cream "ordinary" paper has been kept for nine months unexposed, and yielded prints equal in quality, and equal in their capacity for producing a fine rich result by sulphide toning, as when the paper was first received from the manufacturers. The paper base does not seem to affect the emulsion in any way, but only the latent image. And that does not appear to be destroyed, but only changed in character. But the change renders the prints valueless.

Coronet Cameras

THE value offered by camera manufacturers to-day is greater than it ever was, yet the number of camera owners is really quite a small proportion of the population, so that dealers who are in search of a camera for the million will be interested in the box-form roll-film models manufactured by the Coronet Camera Co., 48 Great Hampton Street, Birmingham. The cameras are made in two sizes—vest pocket (2½ in. by 1½ in.) and 3½ in. by 2½ in.—selling at 4s. 6d. and 7s. 6d. respectively. The specification of the cameras includes a damp-proof cloth covering, time and instantaneous shutter, two-stop diaphragm, direct vision as well as the reflecting view-finder. The higher-priced model is fitted with a rectilinear lens. To assist in making an effective display showcards, display boxes and window streamers can be obtained on application. The firm also supply, among other lines, roll-films, plates, papers, camera cases and albums.

Red Tones on Bromides

At a recent meeting of professional photographers a demonstration was given by a representative of Wellington & Ward, Ltd., of the red toning of bromide prints made on their paper. It was pointed out that the process was not a new one, but it is the only process by which a permanent red, i.e., a true Bartolozzi red, could be obtained on bromide paper, and it is claimed that the prints will not fade even when subjected to long exposure to light, heat, damp and chemical fumes. The original black prints are made in the usual way, dried and then toned to a sepia by the sulphide process. They are then immersed in the following acidified gold and thiocarbamide solution:—

I		II	
Gold chloride	15 gr.	Thiocarbamide	25 gr.
Water	10 oz.	Water	10 oz.
III			
Citric acid (crystals)	...	...	¼ oz.
Water	...	...	10 oz.

The working solution is made by adding one part of No. II to one part of No. I, then adding one part of No. III, and finally three parts of water. The sulphided prints are immersed in this solution until the last trace of sepia has disappeared. They are then washed in running water for half-an-hour. During the process of toning the prints should be moved occasionally to ensure even results.

Imperial Metal-Cased Film-Packs

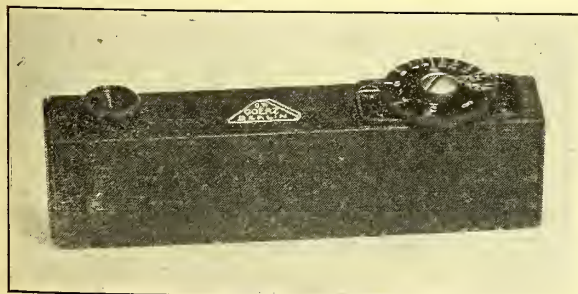
MUCH controversy has raged over film-packs and film-pack adapters, the chief cause of complaint being that British-made packs did not always fit the adapters without bulging. This trouble has been completely overcome by the Imperial Dry Plate Co., Ltd., Cricklewood, London, N.W.2, who now supply this form of sensitive material in metal cases. As regards the film, its high standard is well known and there can be no doubt that in its new "dress" it will become still more popular. The case is made entirely of metal, and by designing it in the form of two trays which slide one within the other, the difficulty of removing and replacing a small lid or cap has been ingeniously overcome. In addition, the need of correct register as each film comes into position for exposure has been fully appreciated. It is equally evident that careful consideration has been given to the need for light-trapping, and smooth transfer of the films from the front to the back of the pack. This is an important matter, owing to the risk of telegraph-wire markings on the film and the tendency for two films to move round when a single tab is pulled. Two packs sent in for trial by the company proved in every way satisfactory.

Compressed Chemicals

PHOTOGRAPHIC chemicals in tablet form have not generally received the prominence they deserve. In spite of the fact that when on holiday most people prefer to have their developing and printing done for them, it is at the seaside resorts where such things should be most appreciated. Light evenings and dark-room lamps are no obstacle if a desensitiser is used. Johnson & Sons (Manufacturing Chemists), Ltd., Reuters Avenue, Hendon, London, N.W.4, specialise in the manufacture of photographic chemicals in tablet form and pack them ready for sale under the name Scaloids. There is a wide range of products available under this title, among those of chief interest being Vedol (a universal developer), amidol, glycin, metol-quinol, pyro-metol, pyro-soda, toning and fixing, hypo, hypo eliminator, intensifier, reducer and restrainer. There are also Scaloids for blue, green, red and sepia toning, the first-named being particularly suitable for seascapes. Among other notable lines which the company manufacture (apart from tank developers and so forth for D. and P. establishments) are a concentrated glazing solution, a concentrated desensitising solution, and white ink.

Zeiss Products

AMONG the newer Zeiss Ikon productions which we have recently had an opportunity of inspecting is the Cocarette No. 209. As is well known, the cameras supplied under this name are characterised by their sound construction and neat finish. This particular model is for roll-film pictures $3\frac{1}{2}$ in. by $2\frac{1}{4}$ in. The lens is a Tessar, working at $f/4.5$, in a Compur shutter. By means of radial lever focussing, photographs can be taken as near as four feet. Other interesting products are the



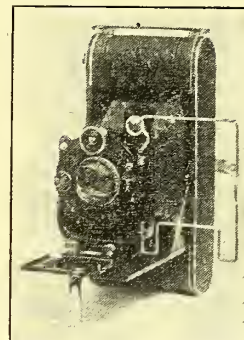
DISTANCE GAUGE

Zeiss Ikon roll-films and film packs, among the outstanding features of which are their freedom from "telegraph wire" markings and their sensitiveness to yellows and greens. It is well known that the photographic emulsion on plates and films is most susceptible to abrasion; to get over this trouble Messrs. Zeiss Ikon

are coating the emulsion on their films with a thin layer of gelatin. The film packs are in a strong metal container covered with cardboard. The importance of accurate focussing is appreciated by every camera user, but with many roll-film apparatuses it is practically impossible, while for near objects when using a large aperture lens of even moderate focal length, accuracy is



DIAPHOT

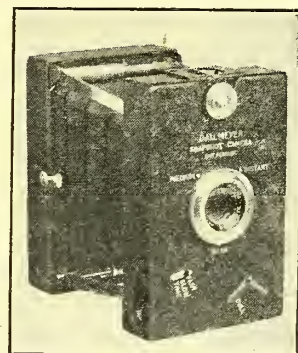


COCARETTE No. 209

a *sine qua non*. Constant practice enables one to estimate distance fairly exactly, but a more satisfactory method is by means of a gauge. The Zeiss Ikon distance meter is quite simple to use, all that is necessary is to look through the eyepiece at the distant object and rotate a disc until the principal lines on the object are in alignment. This automatically records the distance on the disc. Other Zeiss photographic accessories to which attention may be called are the Diaphot, an exposure meter of the extinction type, the finder-magnifier for attachment to small reflex view finders on hand cameras, and a miniature dark room lamp providing white, yellow, and two shades of red light, and lighted by means of an ordinary pocket battery. The agents in this country for Zeiss Ikon products are Garner & Peeling, Ltd., Polebrook House, Golden Square, London, W.1.

Dallmeyer Snapshot Camera

As its name implies, this camera is specially designed for the man, woman or child who wishes to record scenes or events but is unable or unwilling to learn anything of the intricacies of the modern camera. Manufactured by J. H. Dallmeyer, Ltd., 31 Mortimer Street, Oxford Street, London, W.1, this novel apparatus measures $4\frac{1}{2}$ in. by $2\frac{7}{8}$ in. by $1\frac{1}{2}$ in. It weighs 11 oz., is fitted with an anastigmat lens, the full aperture of which is $f/6$, and accommodates a $3\frac{1}{4}$ in. by $2\frac{1}{2}$ in. film pack, thus allowing daylight loading and twelve exposures. Each film can be removed without disturbing those remaining in the pack. The camera opens for use by pressing two "buttons" situated one on either side of the instrument, when the front of the camera is carried forward. The full aperture is obtained when the indicator is set at "dull," the alternative ($f/11$) being "bright." Further, to control the exposure, the between-lens shutter allows two different speeds ("fast" is approximately $1/40$ th second and "slow" $1/20$ th second) and time. Focussing is carried out by rotating the inner front rim on the lens to either "near," "medium" or "distant," and the shutter is on the "ever-set" principle. The viewfinder is of the reflecting type. The camera has a chrysaline black finish, and the case, being made of metal, combines light weight with strength and rigidity. The film-pack adapter is not additional to the camera, as is generally the case, but actually forms the back of the instrument.

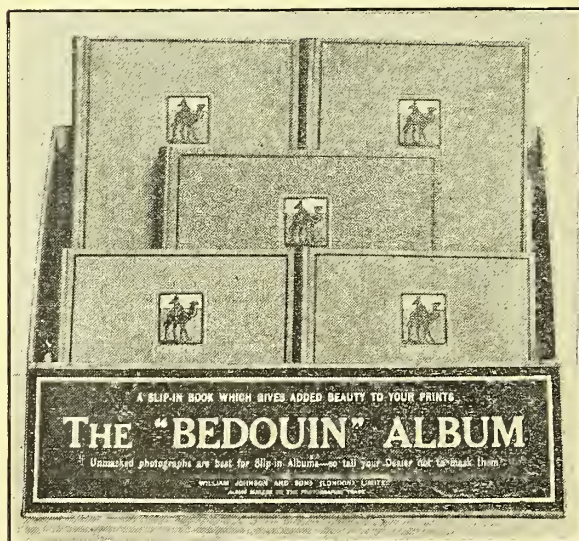


Tabloid Photographic Accessories

It does not take long for even the veriest tyro to discover that precision in exposure is in the ordinary way no simple matter; that, indeed, it is based on definite scientific principles. Developing and printing can be done for him, but the exposure is entirely his own concern. However, even this is simplified for him in the Photographic Exposure Calculator Handbook and Diary issued by Burroughs Wellcome & Co., the demand for which at this season of the year reaches its zenith. This work, which was reviewed at length in *THE CHEMIST AND DRUGGIST*, November 19, 1927, p. 637, is familiar not only to chemists, but also to countless numbers of photographers throughout the world. Every camera user is a potential dependent of the Wellcome Exposure Calculator Diary, which saves the purchaser its modest initial cost many times over. It is well advertised in the photographic and lay press, and when selling cameras retailers may well bring to the purchasers' notice this handy *vade mecum*, to their mutual advantage. It shortens the photographic apprenticeship, and gives every negative the best possible chance of being a picture. "Simplified photography" is a suitable slogan in connection with all the photographic products of Burroughs Wellcome & Co. Tabloid Rytol and Tabloid Tancol are specially favoured products, compactness, portability and reliability being among their notable qualities. Tabloid Tancol is ideal for tank development. The charm of coloured photographic prints can be easily obtained by using Tabloid Colour Toners and Stains. A chromatic circular recently issued by Messrs. Burroughs Wellcome shows the pleasing results obtainable in blue, green and red. The method, which is explained in the circular, is probably one of the simplest of all photographic processes for producing colour on papers or lantern slides.

Photographic Albums

QUALITY is one of the first things that impresses the visitor to the showrooms of William Johnson & Sons (London), Ltd., 18 Union Street, Southwark Street, London, S.E.1, and any dealer not acquainted with the company's photographic albums will find it well worth the time required to inspect them. A catalogue will be forwarded post free to any C. & D. subscriber who sends a post card request, but excellently as this volume is produced only colour printing would enable the goods to be fully appreciated without being seen. The list does, nevertheless, form an excellent guide, and it should find

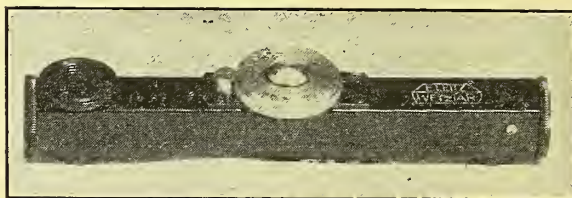


a prominent place on the photographic counter where it can be inspected by customers. In addition to the illustrations, there is a brief description of each kind of album, together with the sizes, number of prints each holds, and the retail prices. Counter showcases can be supplied, and there can be little doubt that most chemists

could improve their album trade by the use of these display aids. Most dealers are familiar with the invoice note to the effect that the remainder of the goods will be despatched as soon as possible. Such an occurrence with Messrs. Johnson, whose business was established in 1856, is almost unprecedented, for the reason that they are one of the largest manufacturers in the country.

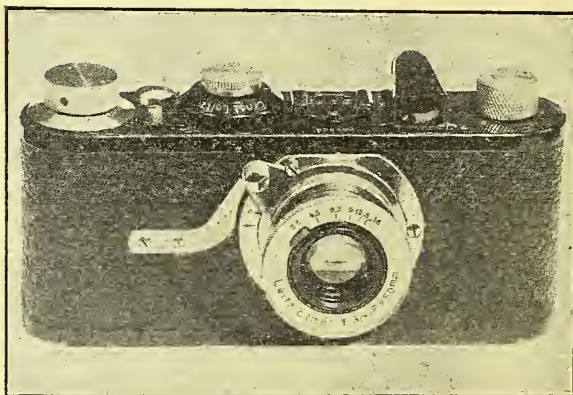
An Interesting Apparatus

A CAMERA of an unusual type is the Leitz Leica. This is designed for taking single pictures on cinema film, and so offers the tourist many advantages over the more usual type of apparatus. The lens has an aperture of $f/3.5$, with a focal length of 55 mm. The short focal length ensures good depth of definition, while the aper-



FODIS RANGE FINDER

ture allows instantaneous exposures in quite poor light. When photographing objects the distance of which from the camera is less than ten yards considerable accuracy in judging the distance is necessary, but any difficulty in this connection is easily overcome by use of the Fodis range finder. This extremely neat little piece of apparatus can be clamped on to the side of the camera or held in the hand when measuring, an operation which is easily carried out by rotating a disc until two images fuse. The distance is then automatically and accurately indicated on the disc. The camera may be fitted with either a focal plane or a Compur shutter,



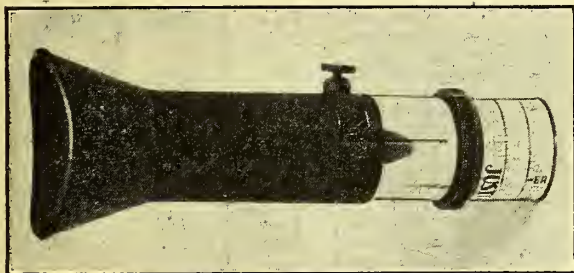
LEITZ LEICA CAMERA

which latter may be described as one of the most trustworthy of all centrally-opening shutters. A counting disc registers automatically the number of exposures made, and it is impossible to take two exposures on the same negative. Enlargements may be made from the negatives, and special apparatus can be supplied for this purpose and for the development of the film. Agents in this country are Ogilvy & Co., 20 Mortimer Street, London, W.1.

Controlling Exposures

ONE of the most important factors in successful photography is correct exposure, hence the significance of two (Optochrome light filters and the Justophot exposure meter) of the many lines supplied by Sands, Hunter & Co., Ltd., 37 Bedford Street, Strand, London, W.C.2. Both are of unusual interest. The former differ from the general run of light filters in that they are made from glass which is itself coloured in the mass during the process of manufacture instead of being gelatin sheet between two pieces of glass. The advantages are

obvious. The screens are available in all sizes, in round or square shape, and in four densities. In addition there are graduated filters for use as sky filters. The Justophot, as is already well known, is an exposure meter of the extinction type, but in this instrument the principle is so employed that individual judgment is reduced to a minimum. When employing a meter of this kind the user generally has to decide when the subject viewed loses its shadow detail, but in the Justophot the appearance of a numeral on a dark ground controls the exposure.



JUSTOPHOT EXPOSURE METER

It takes but a few moments to understand the working of the instrument, which in practice has proved most trustworthy.

Photography in Commerce

ONE of the features of the recent exhibition organised by the Wimbledon (London) Camera Club was the prominence given to the uses of photography for advertising and publicity purposes, and among the exhibits were several relating to products well known in the drug trade, notably, "Selection of Fancy Puffs," by A. R. Tanner; "Happiness (Study for Ovaltine)," by Photographic Advertising, Ltd.; "Study (Pears)," by Angus Basil (awarded a silver medal and obviously related to the well-known toilet preparations); "Pond's Vanishing Cream," by A. L. Hitchin; "Lemon Squash Window," by Harry Craely; and "Ovaltine at Night," by John Maarbjerger. There were also many novelties, including specimens of a process by Frueh, Zurich, of painting on silk or other fabrics photographically, which, it is claimed, was not previously possible on a commercial scale. These colours are not only washable and permanent, but the cost is competitive with ordinary printing or lithography. Other interesting exhibits related to reliefs with monochrome effect in plaster of Paris, in clay, on tiles and ceramic opal prints; also printers' ink impressions on fabric by a modified collotype method by Tear, Southampton.

International Congress of Photography

THE seventh International Congress of Photography will be held in London from July 9 to 14, under the auspices of the Royal Photographic Society. The previous Congresses were held in Paris (1889, 1900 and 1925), Brussels (1891 and 1910), and Liège (1905). The sessions will be divided into three sections: (1) Scientific and technical; (2) pictorial; (3) bibliography and history. The chairman of the organising committee is Sir William J. Pope, K.B.E., F.R.S., and Dr. Walter Clark, Science Museum, South Kensington, London, W., is acting as secretary. As this is the first occasion that the International Congress has been held in Great Britain no effort is being spared to make it an outstanding success. Papers are invited from investigators in all parts of the world, and the full texts should be submitted to the secretary not later than June 1. The secretary will also be pleased to hear from anyone desirous of exhibiting matter relative to recent advances in photography. There is also to be a section devoted to trade exhibits, and those manufacturers who wish to take advantage of the opportunity should lose no time in communicating with the secretary, as the available space is limited.

Photographing in the Dark

Ultra-violet rays have lately been employed in a novel manner, i.e., for enabling a photograph to be taken in

total darkness. It is, of course, well known that the ordinary photographic plate is most sensitive to the blue end of the spectrum—light filters are used for the express purpose of retarding this activity—and an interesting experiment was recently carried out in a "dark room" at the laboratory of Kelvin, Bottomley & Baird, Ltd., London and Glasgow, with apparatus of their own manufacture. A camera was focussed and a mercury arc lamp trained on the same position—a chemical bench at which was the photographer's assistant—and it was found that the resulting photograph was equal to one obtained under ordinary conditions. Owing to the harmful effect of these rays on the eyes, special protective goggles are necessary where they are being projected, or in the case of a person included in the photograph the eyes must be kept closed. This discovery is of comparatively recent date, and when it is recalled that not long since there was the invention of a glass capable of passing ultra-violet vibrations, it will be realised that here is a field for research which is full of possibilities.

The agent in this country for Plavac films is Mr. Reginald E. Carter, 122 Wigmore Street, London, W.1.

It is proposed to hold the next Photographic Fair in the spring of 1929, by which time it is hoped that the new Horticultural Hall, Westminster, London, will be available, so that better accommodation can be provided.

Cameras bearing the name Kodak or Brownie have the confidence of all classes of photographers, and among the various models for which a large demand is anticipated this summer are Nos. 1 and 1A Pocket Kodaks. Details of these and other photographic apparatus which Kodak, Ltd., can supply are given in 1928 edition of the company's catalogue.

A new plate which has recently been put on the market by Ilford, Ltd., is known as the Ilford Soft Gradation Panchromatic. It has a daylight speed of 700 H. and D., or nearly double the speed of previous panchromatics, while to half-watt light its speed is stated to be 2,000 H. and D. This remarkable advance is the result of research work on dyestuffs in the company's laboratories.

Under the auspices of Samuel Jones, Ltd., Bridewell Place, London, E.C.4, an attractive exhibition of passe-partout picture framing is being held at Poetry House, 44 Devonshire Street, E.C.2. Admission is free, and the closing date is May 5. There is also a display of the prize-winning prints in the passe-partout framing competition recently organised by the company, who, as dealers are already aware, specialise in materials for this type of binding.

The spring number of "The Photographic Press Review" has recently been published (The Fountain Press, Ltd., 14 Clifford's Inn, Fleet Street, London, E.C.4, 2d.). It is also the first issue of this publication, which is devoted to reviews of books and magazines of interest to workers in all branches of photography. It is proposed to issue the "P.P.R." twice yearly, and as in each number the lists of books will be brought up to date, there will be an easily available reference to current photographic literature.

The name Voigtlander has always been associated with cameras renowned for their quality, and the illustrated price-list recently issued by the distributors in this country (Peeling & Van Neck, Ltd., 4-6, Holborn Circus, London, E.C.1) shows that all the latest improvements have been incorporated in the cameras without making them look unduly complicated, a matter of considerable importance where amateurs are concerned. The prices, too, are reasonable. The list will be sent to *C. & D.* subscribers on application.

Thomas Illingworth & Co., Ltd., Willesden, London, N.W.10, have sent us a copy of the first issue (April 1928) of "T.I.C.," a publication which they propose to issue periodically during the season as a link between themselves and the dealers. This number contains, among other matters, portraits and brief biographies of some of the company's "Ambassadors of Commerce," notes on the offices, works and products, and information regarding co-operation, publicity and showcards during the coming season. Any *C. & D.* subscriber who has not received a copy of the brochure should send a post-card request for it.

Photographic Tariffs

THE information given in the following table, which shows the rates of Customs duties levied on photographic and allied apparatus and materials exported from Great Britain and imported into the several countries, together with tariff values assigned to certain articles for the purpose of assessment of Customs duties, has been compiled from the standard tariffs published by the governments concerned. The rates of Customs duties, if any, set forth in the column "British Preferential Tariff" apply to goods, the produce or manufacture of British countries conveyed without transhipment from a port of any British country enjoying the benefit of the British preferential tariff into a sea or river port of the country stated. The rates of Customs duties in "Intermediate Tariff" or in "Minimum Tariff" apply to goods of a country to which the benefits of such tariff shall have been extended when imported direct from such foreign country. In some cases the minimum tariff for photographic goods—although not enjoyed by photographic manufacturers in Great Britain—is given, and it might be mentioned that Germany, Canada, U.S.A., and Czecho-Slovakia have concluded commercial treaties or agreements with France, and consequently enjoy the preferential tariff set out. The import duty on merchandise into Egypt is 8 per cent. *ad valorem*, which means for imports the value of the article in the country where it was purchased at the date of its clearance for consumption in Egypt *plus* all freights, insurance, packing, etc., to the Egyptian port of landing. The "Official Gazette (Extraordinary)" of British Guiana (February 22, 1928) mentions as exempt from duty (a) cinematograph films, and (b) optical instruments which are imported for the purpose of scientific, medical or technical research. The duties under "General Tariff" or "Duty" apply to all goods not entitled to admission at preferential rates. It should be borne in mind that tariffs are frequently changed: it is proposed to abolish the duty (20 per cent. *ad val.*) on photographic films imported into South Africa during the present session of Parliament.

Australia (cont.)	British Preferential Tariff	Intermediate Tariff	General Tariff
Cameras and magic or optical lanterns, including mounted lenses and accessories, but not including tripods <i>ad val.</i>	Free	10%	20%
Photographic negatives ..	Free	Free	Free
Home cinematographs <i>ad val.</i>	Free	Free	10%
Cinematographs, including arc lamps for projection purposes <i>ad val.</i>	25%	35%	40%
Sensitised films and films	Free	Free	Free
Exposed or developed films representing dramatic or Australian subjects:			
(a) Suitable for use only with home cinematographs			
per linear foot	Free	½d.	½d.
(b) Other per linear foot	Free	1d.	1½d.
Provided any such film printed from a negative which was not the produce or manufacture of the United Kingdom shall not be entitled to entry at the rate of the British Preferential Tariff under this sub-item.			

British India	Per	Tariff Values	Duty
Cinematograph films ..	—	Rs. A. P. <i>ad val.</i>	15%
Exposed standard positive films, new or used—proved to have been printed from negatives produced in India ..	Foot	0 1 0	15%
Others	Foot	0 4 6	15%

Canada	British Preferential Tariff	Intermediate Tariff	General Tariff
Cinematograph or moving picture films, positives, one and one-eighth of an inch in width and over, per linear foot	1½ cents	3 cents	3 cents
Magic lanterns and slides, philosophical, photographic, mathematical and optical instruments <i>ad val.</i>	17½%	22½%	25%
Collodion, for use in films for photo-engraving ..	15%	17½%	17½%
Lenses and shutters, when imported by manufacturers of cameras for use only in the manufacture of cameras ..	Free	Free	Free
Special parts in the rough, when imported by manufacturers of cameras, for use only in the manufacture of cameras <i>ad val.</i>	5%	7½%	7½%
Photographic dry plates <i>ad val.</i>	20%	27½%	30%
Albuminised and other papers and films chemically prepared for photographers' use <i>ad val.</i>	15%	25%	30%
Plain basic photographic paper, baryta coated, adapted for use exclusively in manufacturing sensitised photographic paper ..	Free	Free	Free

Australia	British Preferential Tariff	Intermediate Tariff	General Tariff
Photographic and x-ray dry plates and flat films, sensitised .. <i>ad val.</i>	25%	30%	35%
or per sq. foot	5d.	6½d.	8d.
Whichever rate returns the higher duty.			
Photographic sensitised films .. <i>ad val.</i>	25%	30%	35%
or per sq. foot	8d.	10d.	12d.
Whichever rate returns the higher duty.			
Photographic sensitised papers and cards, also linen and other sensitised materials; postcards (sensitised with or without letterpress) <i>ad val.</i>	25%	30%	35%
or per sq. foot	1d.	1½d.	1½d.
Whichever rate returns the higher duty.			
Lantern slides, photographic backgrounds (mounted and unmounted); photographs of Australian subjects; stereoscopic views <i>ad val.</i>	25%	30%	35%
Sensitised blue print and heliographic papers and fabrics <i>ad val.</i>	25%	30%	35%
Photographic materials, viz. platinotype paper, autotype paper <i>ad val.</i>	Free	5%	10%

France	Per	General Tariff	Minimum Tariff
		Francs	Francs
Photographic paper, sensitised, carbon paper	kilo	3.36	0.84
Silver and platinum paper weighing more than 250 gm. per sq. metre	kilo	6.40	1.60
Other	kilo	8.00	2.00
Ferro-prussiate paper	kilo	1.44	0.36
Plates, films:			
Non-sensitised	kilo	16.00	4.00
Sensitised	kilo	19.20	4.80
Films and plates of all material sensitised on two surfaces	kilo	36.00	9.00
Cinematograph films exposed and unexposed ..	<i>ad val.</i>	20%	20%
Hand cameras	<i>ad val.</i>	40%	10%
Shutters	<i>ad val.</i>	20%	5%
Tripods	<i>ad val.</i>	60%	15%
Portable dark-rooms; projection, enlarging and reproducing apparatus, view finders for cameras, cinema projectors ..	<i>ad val.</i>	48%	12%
Other photographic material	<i>ad val.</i>	52%	13%
Lenses, mounted	<i>ad val.</i>	56%	14%

Germany	Per kilos	—	Duty RM.
Photographic papers, including those packed for retail sales	100	—	100
Dry plates for photographic purposes, covered on one side with a sensitive substance with or without negative pictures thereon .. (gross weight)	100	—	72
Photographic apparatus, ground or mounted optical glass—these, as far as they are not subject to higher rates of duty by reason of their combinations with other material	100	—	360
Cinematograph films, celluloid, not exposed, sensitised	100	—	600
Celluloid films, sensitised, not exposed, roll films, pack films, also portrait and Röntgen films ..	100	—	400

Italy	Per kilos	—	Duty Lire
Glass plates, sensitised for photography (gross) ..	100	—	140
Photographic apparatus, cameras, with or without lens, comprising the case	100	—	525
Projectors (with lens or prism or parabolic mirrors)	100	—	500
Films (1) unexposed:			
(a) sensitised (gross) ..	100	—	500
(b) non-sensitised	100	—	100
(2) exposed	100	—	200
Cinema films:			
(1) non-exposed:			
(a) sensitised	100	—	1,020
(b) non-sensitised	100	—	510
(2) exposed	per 100 metres	—	22
Lenses for optical instruments, mounted or unmounted	<i>ad val.</i>	—	25%
Photographic papers:			
(a) non-sensitised	100	—	97.50
(b) sensitised	100	—	130.00

New Zealand	British Preferential Tariff	—	General Tariff
Photographic cameras	Free	—	20%
Photographic goods <i>ad val.</i>	20%	—	40%
Camera covers and cases <i>ad val.</i>	25%	—	45%
Films for cinematographs and similar instruments	Free	—	1d. per lineal foot
Magic lanterns, cinematographs and similar instruments, including necessities peculiar thereto .. <i>ad val.</i>	20%	—	40%
Sensitised surfaces and albuminised papers, plain, not being postcards or other stationery <i>ad val.</i>	Free	—	20%
Slides for magic lanterns ..	Free	—	Free

South Africa	—	Minimum duty	Maximum duty
Photographic apparatus and material, not including process cameras imported by lithographers	<i>ad val.</i>	20%	20%
Bioscopes, cinematographs and magic lanterns; and slides for the same, but not including films, or magic lantern slides of a religious nature for religious instruction ..	<i>ad val.</i>	25%	25%
Magic lantern slides of a religious nature for religious instruction ..	—	Free	Free
Films, cinematograph:			
(a) Blank films, known as raw films or stock	—	Free	Free
(b) Of a scientific or educational nature for exhibition solely to scientific or technical societies or in educational institutions, or certified by the Secretary for Public Health to be for use in the interests of public health	—	Free	Free
(c) Other	per 100 feet or <i>ad val.</i>	2s. 6d.	2s. 6d.
Whichever duty shall be the greater.		30%	30%

Spain	Per kilos	—	Duty Pesetas
Albuminised paper or any other for photographic use:			
Sensitised	kilo	—	6.50
Unsensitised	kilo	—	2.65
Paper for heliographic processes	100	—	500
Photographic hand apparatus up to size 13×18 cm. exclusive	kilo	—	20
Other photographic hand and stand apparatus greater than and including 13×18 cm., without objectives, cinematographs with stands, photographic accessories, enlargers, projection apparatus, tripods, etc. ..	kilo	—	2
Films, unexposed	kilo	—	2
„ exposed, negatives or positives	kilo	—	45
Plates	kilo	—	2
Objectives of all classes, with mounts, and all optical instruments ..	kilo	—	45

Practical Photography

The following is an abstract of a paper read by Mr. Harry R. Urquhart at a recent meeting of the Edinburgh Chemists', Assistants' and Apprentices' Association.

Many amateur photographers have imperfect knowledge of the relation between aperture and exposure, and often leave the lens aperture constant and vary only the exposure. If, however, the lens aperture be lessened to give greater detail it must be remembered that the exposure varies inversely as the square of the aperture. If the aperture be reduced from 4.5 to 6.3 the exposure must be practically doubled, the square of 4.5 being approximately 20 and the square of 6.3 approximately 40. A perfect negative will have the highest lights quite opaque and the very deepest shadows transparent, the rest will show every possible gradation, the opacity being proportional to the brightness of those parts of the image to which they correspond. But a faultless negative is rarely obtained. If the gradations are good, but the negative is thin, that is, not sufficiently opaque in any part; the film of emulsion was too thin, or it has been removed from the developer too soon, or the developer was too cold. This fault may be remedied by intensification in several ways. The simplest process, and the one I have found most successful, is that known as mercurial intensification, and consists in adding to the image of metallic silver a quantity of metallic mercury. The negative is thoroughly washed, placed for ten minutes in a strong alum solution, again washed and then immersed in a saturated solution of mercuric chloride. If maximum intensification is required, the negative must remain immersed until the image is quite bleached and converted into a double chloride. The negative is then washed and treated with water containing a little ammonia until the colour of the image undergoes no further change. The white image is changed to a deep brown compound of complex constitution, the intensity being slightly less the stronger the ammonia used. If patches of brown stain appear the negative has not been freed from hyposulphite. When the gradations are good but the negative is too dense or too opaque all over, development has been continued too long. To remedy this, the negative is thoroughly washed after fixing. If it has been dried it must be soaked again in water for at least half an hour. It is then placed in a porcelain dish and covered with fresh fixing solution, previously diluted with an equal quantity of water. The hypo. is then poured off, mixed with a few drops of a 10 per cent. solution of potassium ferricyanide, and returned to the dish. The action proceeds somewhat rapidly and must be carefully watched. The negative should be removed while still slightly too dense and rapidly washed as the action proceeds a little further during washing. The negative is then left in running water for at least half an hour. Film negatives, if required for long duration, may be converted into plates in a dark room, as in ordinary gaslight printing, the plate taking the place of printing paper. The positive plate thus obtained is converted into a negative on another plate in the same manner as the positive plate received its impression from the film. Negatives from which enlargements are to be made should be free from harsh contrasts, full of variety in the half-tones, and of detail in the shadows. An amateur may make his own enlargements with a little practice by some such simple apparatus as the following: Use a $2\frac{1}{2}$ in. x $3\frac{1}{4}$ in. camera with a 6.3 lens, a reflector can be made from a rusk tin with a hole in the bottom, in which is inserted an electric globe connected to a switch plug. The negative is placed between two pieces of glass, the one nearest the source of light being grained to diffuse the light, and the whole held in position between the rusk tin and the camera by means of elastic bands. Escape of light is prevented by means of a black cloth over the whole apparatus. The image is focused on the screen and the exposure made on bromide paper. A useful hint for fair-sized enlargements is sponge development. The paper, after exposure, is allowed to remain pinned to the drawing board; a piece of cotton wool saturated with developer is quickly rubbed over the whole surface of the paper. Speed is essential, as otherwise streaks result. When the image is nearly

fully developed the print is taken from the drawing board, rinsed quickly and fixed. The author then showed a series of leaf prints as an example of photography without a camera. The leaves were printed in direct contact with paper, which was then developed in the usual way. The daylight prints required from eight to ten hours' exposure; the gaslight ones were loaded in subdued light and exposed to daylight for five to ten minutes. This method of gaslight printing by exposure to daylight is useful for very dense negatives which would require a long exposure with artificial light. An interesting variety of photography, especially to those interested in botany, is photographing through the microscope. The microscope is focused to the eye, the camera, set at the smallest possible focal length, is balanced over the eyepiece of the microscope and the exposure given, which depends on the intensity of lighting, and can only be determined by practice.

Glazing Prints

MANY photographic dealers find themselves in trouble from time to time owing to the prints which they are attempting to glaze sticking to the glass, celluloid or ferrotype plate, according to which is being used. On such occasions it seems generally to be assumed that if a glazing solution prepared according to a "good" formula were employed all would be well. The reasons for this (in most instances) erroneous idea are difficult to explain, since the formulas for glazing solutions can hardly be described as numerous, the following being the ones in general use and having chief claims to recognition:—

I			II		
Beeswax	...	20 gr.	Spermaceti or white	...	20 gr.
Turpentine	...	1 oz.	wax	...	1 oz.
			Benzol	...	1 oz.

A few drops to be rubbed on the glass, which is afterwards polished with a soft cloth.

III		
Prepared ox gall	...	1 oz.
Water	...	4 to 8 pints

Soak the prints in the solution for a minute or two and squeegee on the glass without intermediate washing.

Fresh ox gall may be obtained from the butcher, and it must be preserved by the addition of one or two ounces of formalin to one gallon of gall. As the gall will require either filtering or straining through several thicknesses of muslin, those who object to the mess and the smell will be interested to know that it may be purchased in a semi-dried state. The last formula, or rather that type of formula is generally regarded as the most efficient for glazing and stripping, but, as a matter of fact, the value of either of the above or any other formula is, according to pharmaceutical standards, practically *nil*. That glazing solutions are helpful and even necessary is not disputed, but as to what constitutes a good formula is open to question. The reason for this is the number of variants. In the case of the wax solutions not only do manufacturers differ regarding the strength, but the instructions for using are generally to the effect that a few drops should be rubbed on the glass or ferrotype with a soft cloth or flannel, the surface afterwards being polished with another soft cloth or a piece of silk. As regards the ox gall solution, it will be noticed that the amount of water to be added is almost optional, and, as if further to complicate matters, ox gall itself can hardly be called a standard product. When using this solution the prints may be immersed in it for a minute or two and then placed on the glass, or the latter can be sponged with the solution and the wet prints laid on, being squeegeed in the usual manner. It is obvious therefore that the secret of successful glazing does not depend greatly on the use of a "good" formula for a solution; moreover, if further evidence is required it may be noted that almost any floor polish thinned with a little paraffin or turpentine will answer the purpose quite well. The amount of glazing solution used, however, does have a distinct bearing on results, as does also the length of time during which the prints have been washed immediately prior to glazing, and the efficiency with which the final washing has been carried out.

HINTS ON PROCEDURE

Two methods are available: the print can be squeegeed on the glass either immediately after washing or it can be allowed to dry and afterwards immersed in water until it is limp, and then glazed. In either case it is preferable to give it a few minutes in a hardening bath (alum 1 in 10 or formalin 40 per cent. 1 in 20 of water). This seems particularly necessary if washing has been unduly prolonged, in which case the paper will be sodden and the gelatin somewhat sticky. The hardening effect is apparently due to absorption. The glass or ferrotype should be well cleaned, and if water is used for the purpose, the surface should be thoroughly dried before polishing with either French chalk or a glazing solution. Particular care should be taken with the former to see that all particles of it are removed, while with the latter, the smallest amount necessary should be applied and the final polishing should be with a clean, dry, soft rag. Incidentally, it may be pointed out that the term glazing solution is really a misnomer, since the liquid does not glaze but merely serves to put a high polish on an already (or should be) glossy surface.

POSSIBLE CAUSES OF FAILURE

Lack of success with self-toning papers is not unusual, and in most cases it may be attributed to the fact that an attempt is being made to glaze one of the collodion types. The papers coated with a gelatin emulsion do not present difficulty if proper care is taken, but the collodion papers when placed directly on the glass after washing generally stick—decidedly so, while if they are allowed to dry first the print peels off without glazing. It is quite impossible to harden the collodion emulsion by means of an alum or formalin bath, as is done with the gelatin. Fixing must in all cases be followed by adequate washing, but it is not unlikely that where the water supply is very hard the calcium and magnesium salts may be responsible for prints sticking if the glass has not been well polished. It may be pointed out that when labelling tins it is usual to roughen the surface, and these salts or hypo which has not been washed out of the print may act similarly. Another cause of failure when using a wax glazing solution is due to the fact that though the glass has been made scrupulously clean it has not been thoroughly dried, so that where there is a damp patch the solution is comparatively ineffective. Care should be taken in squeegeeing to avoid air bells. Wax itself may be one of the causes of trouble owing to its acid value, which might conceivably increase the adhesive properties of the gelatin. This may be a possible explanation of the generally admitted superiority of the ox-gall solutions. Among those whose business involves a large amount of glazing the use of the ox-gall solution is almost universal. So far as chemists are concerned, it is preferable to buy the concentrated solution ready made, all that is necessary prior to use being dilution with water.

Westminster Wisdom

Notes on Parliamentary Matters.

TUBERCULOSIS

The Minister of Health. (Mr. N. Chamberlain), replying to Captain Bourne, on April 26, stated that the total number of notified cases of tuberculosis which remained on the registers of local authorities on December 31 last was 363,187. During 1926 the number of persons who received residential treatment for tuberculosis under the schemes of local authorities was 63,680, and the average duration of treatment was approximately 150 days.

CHEMICAL TRADE

Mr. Kelly asked the Minister of Labour, on April 25, the number of men and women registered as unemployed from the heavy chemical trade, also the light chemical trade, in March, 1926, 1927, and 1928, respectively.

Mr. Betterton: The number of insured persons in Great Britain classified as belonging to the chemicals industry recorded as unemployed was 5,235 at March 26, 1928, compared with 6,033 at March 21, 1927, and 7,639 at March 22, 1926. Separate statistics distinguishing the heavy chemical industry and the light chemical industry are not available.



THE CHEMIST AND DRUGGIST
ESTABLISHED 1845

**RETAIL & DISPENSING
PRICE LIST**

based on definite costing principles

ISSUED QUARTERLY SEVENTH YEAR OF PUBLICATION

APRIL changes are few: the drug index has risen slightly from 137.0 to 139.1, while the surgical dressings index has fallen from 205.4 to 205.2. Such changes as involve alterations in selling prices are set out below and will enable chemists to correct the quarterly issue of the Price List up to May 1:—

Cost			Selling Price			
			16 oz.	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.	s. d.
150	lb.	Canada balsam	—	5 6	1 6	—
14	lb.	Coriandri fructus	1 9	0 7	—	—
21	lb.	Coriand. fructus pulvis ..	2 8	0 10	—	—
18	lb.	Coriand. fructus pulvis (crs.) ..	2 3	0 8	0 3	—
96	lb.	Cydoniæ semina	—	3 5	0 11	—
15	oz.	Ext. colocynthidis pulvis ..	—	—	2 3	—
11	lb.	Ferri limat.	1 5	0 6	—	—
12	lb.	Ferri oxidum præcipitatum rubrum	1 6	0 6	—	—
20	oz.	Ferri valerianas	—	—	3 0	0 7
9	lb.	Fœnugr.sem. pulvis (crs.) ..	1 2	—	—	—
25	oz.	Hyd. oxycyanidum B	—	—	3 8	0 7
75	lb.	Hydroquinone	—	2 8	—	—
27	lb.	Lin. camphoræ	3 4	0 11	0 3	—
24	lb.	Lin. camph. ammoniatum meth.	—	0 10	—	—
48	lb.	Lin. capsici meth.	—	1 8	0 6	—
14	lb.	Lin. saponis meth.	1 9	0 6	0 2	—
102	lb.	Myrrh. elect	—	3 9	1 0	—
63	lb.	Myrrh. sorts	—	2 4	0 8	0 2
48	lb.	Myrrh. sorts. parv.	6 0	1 9	0 6	—
102	lb.	Myrrh. pulv. opt.	—	3 9	1 0	—
54	lb.	Myrrh. pulv. sec. (vet.) ..	6 9	2 0	—	—
72	gal.	Ol terebinthinæ	pint	1 3	0 3	—
108	oz.	Papaverin. hydrochl.	—	—	—	2 8
108	oz.	Papaverin. sulph.	—	—	—	2 8
54	lb.	Sarsæ radix Jam.	6 9	2 0	0 7	—
66	lb.	Sarsæ radix Jam. incis. ..	8 3	2 5	0 9	—
39	lb.	Taraxaci radix Ang. incis. ..	4 9	1 5	0 6	—
33	lb.	Ung. metallorum B.P.C. ..	4 2	1 3	0 5	—
15	oz.	Uranii nitras	—	—	2 3	0 5
126	gal.	Vin. aurantii	pint	2 4	—	—
222	gal.	Vin. aurantii detan.	pint	3 7	—	—

CHEMICAL SOCIETY.—The next four ordinary scientific meetings of the Chemical Society will be held at 5.30 p.m. (Tea at 5 p.m.)

M. GEORGES BARTHELET, president of the General Association of French Pharmacists, has been nominated Chevalier of the Legion of Honour.

CASTILE SOAP.—Mr. R. W. Mitchell, Ph.D., chemist to Lockwood, Brackett Co., Boston, Mass., has written a monograph covering the origin, history and significance of the term "Castile soap," together with a discussion of the properties, uses, reputation, adulteration and imitation of the product, based upon over 900 extracts from the literature of 400 years. The author has for a number of years carried on technical work connected with Castile soap, and in view of the public interest created the monograph should be welcome, as hitherto nothing so complete and authoritative has been available.

Council Candidates

THE expressions of opinion given in our issues of April 21 (p. 503) and April 28 (p. 534) by candidates for election to the Council of the Pharmaceutical Society are now continued with the publication of the views of three other pharmacists who seek election.

Mr. P. Barrs

was educated at the Hulme Grammar School, Manchester, and commenced in 1899 his apprenticeship to Mr. W. A.

Senior, Scarborough. Following this training with wholesale and retail experience in Nottingham, Aldershot and London, he passed the Qualifying examination in 1911. In the same year he purchased the pharmacy at 106 Church Street, Kensington, W. Mr. Barrs is a Fellow of the Chemical Society, a member of the Institute of Chemists-Opticians, and a member of the Rotary Club of Kensington. He is also a member of the executive council of the Kensington Chamber of Commerce, and serves on the Kensington Borough Council. In reply to our request



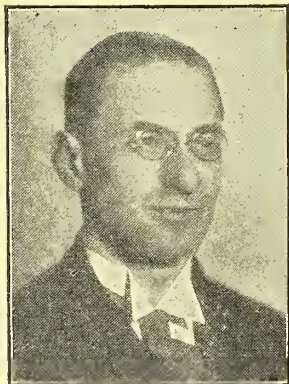
Mr. P. BARRS

for his views, Mr. Barrs writes:—

I should like to say that I do not wish to emphasise any particular point in pharmaceutical politics. I shall further the best interests of the retail chemist as far as my judgment will allow, without making any promises for or against any particular policy.

Mr. Reuben Robinson

was born at Blaenavon, Mon., educated at West Monmouth Grammar School, and served his apprenticeship to the late Mr. John Young, High Street, Newport, Mon. He then went as assistant with Bottle & Co., Dover, Mr. V. Wills, Merthyr, and Bouilly & Co., Bayswater, London, W. Mr. Robinson qualified from the City of London School and Westminster College in 1908, afterwards gaining further experience with Druce & Co., Oxford, Mellin & Co., Piccadilly, London, W., Pharmacie Jouard, Monte Carlo, Pharmacie Beonard, Cap Martin, and Frizell & Co., Leicester Square, London, W.C. In 1912 he opened a pharmacy in Cardiff.



Mr. R. ROBINSON

On August 4, 1914, Mr. Robinson joined the Army, in which he remained till February 1919, when he was invalided out with the rank of staff sergeant. A branch of his business was opened in 1925. Mr. Robinson has had considerable experience of public affairs. He has been vice-president of the Cardiff Pharmacists' Association, deputy chairman of the Publicity Club of Cardiff, a member of the committee of the Retail Pharmacists' Union's local branch, an honorary organiser in connection with the Cardiff shopping week, and a delegate to the World's Advertising Convention. He is a member of the Bute Lodge of Freemasons and a founder

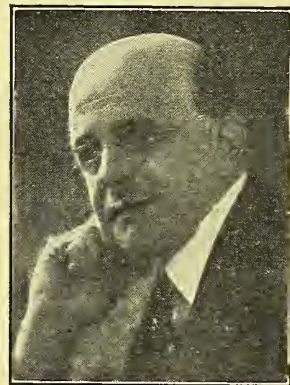
and steward of the Carmel Lodge. Mr. Robinson sends the following statement:—

My desire, as one of the younger generation of pharmacists, is to serve wholeheartedly in an endeavour to raise our status to that of professionalism in the true sense of the word, instead of being, as we are at present, merely distributors of everyone's packed goods (except our own). We must try, if possible, to get removed the various annoyances to which we are subject under the D.D.A. and N.H.I. Acts; and, lastly, it is my opinion that the Society should inaugurate a scheme whereby every potential proprietary article shall be investigated by them before being placed on the market, and thus save duplication and also to safeguard genuine drugs and chemicals being plagiarised.

Mr. William John Peacock

was born in Edinburgh in 1884. After receiving his education at a famous Edinburgh school through

which many distinguished men have passed, he was apprenticed with Duncan, Flockhart & Co. His uncle, the late Mr. James Buchanan, Ph.C., was senior partner of the firm and, at one time, an examiner for the Pharmaceutical Society. Mr. Peacock qualified in 1906. He has two pharmacies, one at Sittingbourne and the other at Milton Regis; at both there is a large family and agricultural connection, together with a considerable amount of dispensing for private patients and also under National Health Insurance conditions. In reply to our request for a



Mr. W. J. PEACOCK

considered statement of policy, Mr. Peacock writes:—

I think the position of chemists in regard to National Health Insurance, if it were not so serious, would be worthy of a Gilbert and Sullivan chorus. I question the legality of the position, while its obvious unfairness is a standing disgrace. Why should the chemist bear the brunt of the doctor's over-prescribing? Why, and how far, has the individuality of the doctor to be obliterated? I do not agree with the principle of any arrangement that seeks to turn medical men into marionettes, and I am out to uphold the right of the chemist and to secure for him cash instead of comic opera. The indignities and worries to which the honest chemist is subjected stand sadly in need of revision, and I consider the present system of inspection wants alteration. Its "cat and mouse" methods require to be curtailed and its composition carefully considered, while there should be no exemptions in the matter of inspection. What would happen if the victim was a member of the N.U.R.? In what other profession does the Government refuse to honour its obligations? If returned, I shall bring to that Board an experience that will be useful, more particularly on behalf of the rural areas, and a zeal and determination born of actual experience that will enforce its will and secure for my fellow pharmacists a fair deal.

As an old president of the Dundee Assistants' Association, I can assure all assistants and apprentices that I can understand their needs, and would be ready to promote any reform for their welfare; but most of all I think we want to secure for the trade such conditions that will make it not only comfortable for present owners but also a profession that will be full of promise for those at the beginning of the road. In these days when many untoward factors are undermining the old citadels of private business in the interests of giant combines, the policy of the Institute of Chemists-Opticians and the Pharmaceutical Selection Committee presents a very timely effort to retain for pharmacy a most valuable security. I hope the electorate will realise it and vote accordingly.

Trade Notes

THE PHOTOGRAPHIC SUPPLEMENT.—The sixteen-page inset which will be found in the advertisement section of this week's issue provides details of photographic supplies marketed by well-known manufacturers who are specially desirous of doing business with chemists. These include AGFA, LTD. (Agfa products); ARTHUR BERTON, LTD. (camera cases); BROOK, PARKER & Co., LTD. (prompt photographic supplies in North and Midlands); ENSIGN SNAPSHOT SERVICE (developing, printing and enlarging); R. W. GREEFF & Co., LTD. (Rhodia brand photographic chemicals); THOMAS ILLINGWORTH & Co., LTD. (films); INDIAN & COLONIAL SUPPLY ASSOCIATION, LTD. (camera cases); JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD. (photographic chemicals in bulk and packed); WILLIAM JOHNSON & SONS (LONDON), LTD. (photographic albums); SAMUEL JONES & Co., LTD. (passe partout picture framing outfits); PERCY R. E. JOSEPHS (showcases); KODAK, LTD. (films); KOSMOS PHOTOGRAPHICS, LTD. (Novex gaslight papers); MAY, ROBERTS & Co., LTD. (Ensign cameras and A. Pe. M. products); FRANK MOSELEY, LTD. (camera cases); OGILVY & Co. (Leica roll film and stereo-reflex cameras); JOHN RILEY & SONS, LTD. (hypo.); ROBINSON & SONS, LTD. (cartons); SANDS, HUNTER & Co., LTD. (Justophot exposure meter); JOHN THOMPSON (WHOLESALE DRUGGISTS), LTD. (general photographic supplies); UNITED PHOTOGRAPHERS, LTD. (developing, printing and enlarging); and A. C. VALLANCE, LTD. (developing, printing and enlarging). We are having reprints made of this Supplement, and shall be pleased to supply copies to any reader interested in photographics who cares to apply for them. The Supplements will be punched and corded, so that they may be hung up in the pharmacy for ready reference.

L. T. PIVER, 102 Dean Street, Oxford Street, London, W.1, advertise a new compact powder in this issue.

NEW PRICE LIST.—Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C.2, have revised and improved their price list dated April 1928. Some additions have been made and an index introduced.

OPTICAL EDUCATION.—Some particulars are given in the advertisement pages of two new courses which are being inaugurated at the British Optical Institute, Ltd. (Dr. Max Coque, B.Sc.), Fern Lodge, 20A Grove Road, Brixton Road, London, S.W.9.

A MYSTERY COMPETITION, entry for which will be free and entail no obligation, is to be a feature of the display of H. R. Napp, Ltd., 3 & 4 Clement's Inn, Kingsway, London, W.C.2, at the forthcoming Chemists' Exhibition. The prize is a £5 parcel of goods to the winner's selection.

INSECTICIDES.—Though there is a demand for insect-killing preparations all the year round, sales in summer are much greater than in winter, consequently considerable interest attaches to those proprietaries which will shortly be required on a larger scale by the public. As is announced elsewhere in this issue, Tibo Products Co., Ltd., 55-60 Goswell Road, London, E.C.1, intend to increase their advertising, and will send a sample of their Rex liquid insect killer to any chemist who does not stock it.

MATÉ or Paraguayan tea, which not long since was the subject of a paragraph in the C. & D. Commercial Compendium, is marketed in this country by Peek Brothers & Winch, Ltd., Peek House, Eastcheap, London, E.C.3, under the name of Matte Real. Until recently the yerba maté imported into the British Isles has been similar to that supplied for the South American markets, where the coarser leaves and even stalks of the plant are often included to strengthen the flavour. Only recently has it been possible, by careful plucking on selected estates, to produce a maté suitable for the more critical home market.

PEPPER FROM MALAYA.—The exports from Malaya in 1927 were 13,515 tons, valued at £1,955,609, compared with 14,454 tons, valued at £1,550,740, in the previous year.

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," April 18, 1928.)

- "REDOLEM"; for chemicals (2). By Murphy & Son, Ltd., The Cedars, Sheen Lane, Mortlake, S.W.14. 489,285.
- "DAKRYOL"; for medicinal chemicals (3). By F. Sigmund, Neue Weinsteige 160, Stuttgart, Germany. 486,787.
- "BIOLITH"; for medicinal chemicals (3) and for surgical instruments, etc. (11). By Société Anonyme la Biothérapie, 140 bis rue Lecourbe, Paris. 488,743/744. (Associated.)
- "OXIEN" on device of giant with head of ox, on heart shape; for tablets, pills and plasters (3). By The Giant Oxie Co., Ltd., Temple Chambers, Temple Avenue, London, E.C.4. 487,937. (Associated.)
- "GITAINE"; for medicinal chemicals (3). By Les Etablissements Poulenc Frères, 86-92 rue Vieille-du-Temple, Paris. 489,307.
- "GLOVO"; for goods (42). By J. Nathan & Co., Ltd., 16 St. Helen's Place, London, E.C.3. 486,568. (Associated.)
- "DEWREXOL"; for a malt extract compound (42). By The British Malt Products Co., Ltd., 1 Market Street, Bermondsey, London, S.E.1. 487,346. (Associated.)
- "HERVEA"; for all goods (42) and (43). By F. E. Coe, 88 Staines Road, Twickenham. 488,869/875. (Associated.)
- "SYRAX" and "PENETRENE"; for all goods (42). By L. Lambert & Co., Ltd., Colne Works, High Street, Uxbridge. 489,051/052.
- "LE DÉBUT"; for perfumery, etc. (48). By R. Hudnut, 113 West 18th Street, New York, U.S.A. 484,324.
- "AZIADE"; for perfumery, etc. (48). By Société des Parfums Guénaux, 12 Cité Trévis, Paris. 486,830.
- "FIXOGEN"; for hair preparations (48). By Eugène, 23 Grafton Street, New Bond Street, London, W.1. 489,184.
- "ARAPARA"; for perfumery, etc. (48). By P.C.M., Ltd., Marish Works, Station Road, Langley, Bucks. 489,353.
- "DEKKO"; for a preventive against moisture condensation on glass (50). By Florogen Works, 6 Poynders Road, Clapham, London, S.W.4. 488,701.
- "CAPSITO"; for capsuling compounds for bottles, etc. (50). By Capsito (Overseas), Ltd., 63 Mountain Street, Sydney, N.S.W., Australia. 488,734.
- Device of plough over "A.D. 1715" ("A.D. 1715" disclaimed); for feeding bottles and tooth brushes (50). By Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C.3. 489,092. (Associated.)

(From "The Trade-marks Journal," April 25, 1928.)

- "ZEISSIKON"; for all goods (1). By Zeiss Ikon Aktiengesellschaft, Schandauer Strasse 76, Dresden A., Germany. 486,439. (Associated.)

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, May 7

Chemists' Exhibition, Holland Park Hall, London, W.11, at noon. Opening ceremony by Mr. Herbert Skinner, president of the Pharmaceutical Society. Exhibition closes May 11.

Tuesday, May 8

Glasgow Pharmacy Club (Ladies' Golf Section), Linn Park Public Course, at 2.30 p.m. First outing of season. New members welcomed.

Wednesday, May 9

Edinburgh Chemists', Assistants' and Apprentices' Association, Caledonian Station, at 5.40 p.m. First botany ramble of the season.

Thursday, May 10

Chemists' Dental Society, Holland Park Hall, London, W.11, at 5.30 p.m. Annual meeting and discussion on N.H.I. and Clinic aspects.

North-East London District Pharmaceutical Association, Holland Park Hall, London, W.11, at 3.30 p.m. Annual meeting.

Chemical Society, Royal Institution, London, W.1, at 5.30 p.m. Arrhenius memorial lecture by Sir James Walker. Admission by ticket only.

Friday, May 11

Society of Chemical Industry, Chemical Industry Conference. Meetings will be held at different places each day until May 15.

Glasgow Pharmacy Club, 165 Hill Street, Garnethill, Glasgow, at 8 p.m. Annual General Meeting.

Births

Notices for insertion in this column must be properly authenticated.

BEWICK.—At 1 Church Street, Troon, on April 23, the wife of William Dickson Bewick, chemist and druggist, of a daughter.

WALKER.—At the Gables, Newcastle-on-Tyne, on April 28, the wife of Mr. Arthur Walker, chemist and druggist, "Ivegill," High View, Wallsend, of a son.

Marriages

BARNETSON—HOSKINS.—At Museum Street Wesleyan Chapel, Ipswich, on April 14, by the Rev. Walter J. Morgan, C. H. F. Barnetson, M.P.S., The Pharmacy, Swaffham, to Madge J. Hoskins, eldest daughter of Mr. F. H. Hoskins, Ipswich.

BROWN—RUFF.—At St. Hilda's Church, Whitby, on April 26, F. A. Brown, M.B., Ch.B., to Marjorie, eldest daughter of Mr. W. Ruff, chemist and druggist, St. Hilda's Terrace.

MOORE—MOGGIE.—At All Saints' Church, Forest Gate, London, E., on April 30, by the Rev. Vaughan Edmonds, Tom William Moore, Ph.C., 90 Claremont Road, Forest Gate, to Isobel Moggie, Edinburgh.

RAE—HARTLEY.—At Walton Parish Church, Liverpool, on April 9, by the Rev. C. K. K. Prosser, George Edward Rae, pharmacist, only son of the late Mr. W. Rae, to Nora, second daughter of Mr. Thomas Hartley, pharmacist, Liverpool.

THORNE—DEAG.—At St. Matthew's Church, Tunbridge Wells, on April 11, Albert Louis Thorne, chemist and druggist, to Elizabeth Ellen Deag.

Deaths

CHURCH.—At Woodside, Hatfield, on April 27, Sir William Selby Church, Bt., K.C.B., M.D., aged ninety. Sir William Church was president of the Royal College of Physicians in 1899-1905, and from 1908 to 1910 he presided over the Royal Society of Medicine. He served on three Royal Commissions, including that of 1901 appointed to investigate arsenical poisoning in food and drink.

DAWSON.—At 15 Regent Street, Keith, on April 29, the wife of Mr. John H. Dawson, chemist and druggist.

HAYES.—At the Princess Alice Hospital, Eastbourne, on April 28, Stanley Samuel Hayes, the second surviving son of Mr. and Mrs. J. A. Hayes, directors of J. A. Hayes, Ltd., 1 St. Ann's Road, Holland Park, London, W.11, aged five. Death was the result of a sad accident while the boy was riding a pony during a holiday.

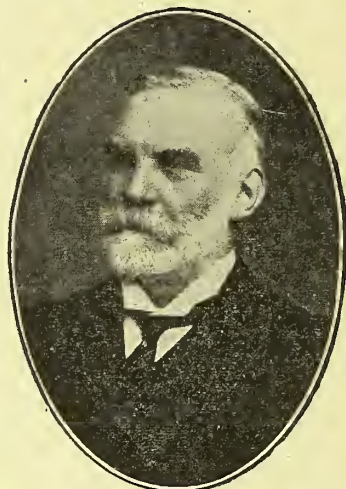
LACAS.—On April 4, Mr. George A. Lacas, president of the Himrod Manufacturing Co., 270 Washington Street, Jersey City, U.S.A.

WALKER.—On April 13, Denis Alexander, only son of Mr. Alexander Walker, chemist and druggist, Leith.

WALKER.—At 77 King Street, Castle Douglas, on April 23, the wife of Mr. F. Walker, chemist and druggist.

WOODS.—At his residence, Fullarton Lodge, Crow Hill Drive, Mansfield, on April 25, after a long illness, Mr. Richard Woods, chemist and druggist, aged seventy-six. After being in business as a chemist for some years, Mr. Wood built up a great reputation as a pigeon-fancier. He wrote several books that have become standard works upon the subject, and paid special attention to the breeding of the "dragoon" strain. On one occasion he took 94 pigeons to a show at the Crystal Palace and returned with 98 prizes, and it is estimated that during the comparatively short period that he showed his birds he took nearly 30,000 prizes and other awards. He was at one time in much request as a judge; he also became widely known as a pigeon-doctor, and birds were sent to Fullarton Lodge for treatment from all parts of the world.

ROBINSON.—At his residence, Bagdale, Whitby, on April 28, Sir Richard Atkinson Robinson, D.L., J.P., chemist and druggist, a past-president of the Pharmaceutical Society of Great Britain, aged seventy-eight. Sir Richard Robinson was a native of Whitby, in which town his family has resided for several generations, his great-grandfather having been Comptroller of the Customs prior to 1777. He served his apprenticeship at Bootle, and after gaining wider experience with the late Mr. Malden, South Kensington, London, S.W., passed the Qualifying examination in 1872. Mr. Malden offered Mr. Robinson (as he then was) a partnership, but died before the arrangements were concluded; the business was purchased, however, by Mr. Robinson and another chemist, and a few years later his partner retired, leaving him the sole proprietor. In 1915-16 Sir Richard disposed of this and two other pharmacies in which he had an interest—one in King Street, St. James's, S.W., and the other in Tunbridge Wells. From a comparatively early period in his career he became prominent in public affairs. After serving on the Kensington Vestry and Board of Guardians for some years, he became a representative for South Kensington on the London County Council. He was elected deputy chairman of the Council in 1903, and chairman in 1908; between these two dates (in 1904-07) he was president of the Pharmaceutical Society. During his year of office as chairman of the London County Council he received their Majesties the King and Queen (then Prince and Princess of Wales) on the occasion of the opening of the Rotherhithe Tunnel. Sir Richard's distinguished record of public work, extending over more than a generation, also includes membership of the Thames Conservancy, the governing body of the Imperial College of Science, the London Municipal Society, the Tunbridge Wells Chamber of Commerce, the London Profiteering Tribunal, and the Society of Yorkshiremen in London. He also held directorships in various manufacturing concerns. Sir Richard and Lady Robinson celebrated their golden wedding in 1926, the occasion being marked by a large family gathering. In the same year a brief account of his active life in London was specially contributed by Sir Richard to the pages of THE CHEMIST AND DRUGGIST: and those who were present at the Scarborough meeting of the British Pharmaceutical Conference a few years back will remember the geniality with which he took charge of the party which visited Whitby and his delightful speech of welcome at the luncheon. Lady Robinson survives her husband together with two sons—Dr. Henry Robinson and Mr. R. A. Robinson, Ph.C., barrister-at-law—and three daughters: two other sons were killed in action during the European war.



SIR R. A. ROBINSON, D.L., J.P.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/15. Hydrophosphate of lime biscuits	M/285. Sacrool (Power's Positive Remedy)
B/15. Kassa for cleaning	H/85. Lenticules
G/305. Poro-plastic splinting (actual makers)	B/15. Trebenzo cold cream
B/15. Rhimlets	M/244. White Cross disinfectant

Observations and Reflections

By Xrayser III.

Budget Anticipations

have not led us to hope for much in the way of relief from the peculiar burdens which afflict chemists and druggists, so we are blessed as are those who expect nothing. Those of us who are fathers of young families benefit by the remission in income tax, but the saving in this respect will not go far to meet the increasing expenses of a growing family. We should probably have been more grateful for something off the spirit duty. As it is, taking everything into account, it seems to me doubtful if shopkeepers generally will find things any easier as the result of changes due to the Chancellor's Budget proposals. The petrol tax will, almost certainly, lead to increase of bus fares and the cost of delivering goods by motor vehicles, and such increase may quite easily result in appreciable addition to our working costs. But we are impotent to prevent this; and the best thing we can do is to work steadily in the direction of securing representation for our interests in Parliament, so that a well-informed spokesman may be ready to state our case in the next House of Commons for alleviation of excessive burdens, or to negotiate on our behalf as opportunity presents itself.

P.A.T.A. Affairs

appear to be satisfactory, judging from your report of the proceedings at the latest annual meeting (*C. & D.*, April 28, p. 527), and I trust the majority of chemists and druggists in business are satisfied that their interests are being well safeguarded in so far as the prevention of cutting is concerned. It is certainly disquieting, as the annual report puts it, to learn that cutters frequently obtain their supplies, directly or indirectly, from retailers, and it is to be hoped that steps will be taken to teach a sharp lesson to any retailer found to be thus not playing the game. The old difficulty of cutting by market traders, street stall-keepers, and small shops still continues to vex the Council of the P.A.T.A., and may be expected to continue to do so while supplies are obtainable from certain wholesalers of no particular repute, who will sell without question to anyone who comes cash in hand. But the general position is undoubtedly sound, and I trust your readers who benefit by the continued maintenance of face-value prices for proprietary articles they sell will not allow themselves to be prejudiced against the P.A.T.A. by criticisms emanating from any other trade organisation.

Welsh Chemists

have my sympathy in their desire to secure administrative independence in respect of National Health Insurance dispensing (*C. & D.*, April 28, p. 541). There seems to be no getting away from the fact that the average cost of drugs and appliances is appreciably lower in Wales than in England. According to Sir Kingsley Wood, whose reply on the subject you report (p. 540), there was last year an advantage of fivepence-halfpenny per insured person in favour of Wales. Yet Welsh chemists assembled at Bangor were told that Wales is an extravagant area and that they would be worse off if they secured administrative independence! Careful reading of your report of the meeting at which these statements were advanced does not make it clear that those who heard them were convinced regarding their accuracy. I imagine, indeed, that an air of intense hostility pervaded the meeting, and that we may expect our Welsh brethren to continue their agitation for separation and better terms. It is worthy of note, by the way, that it was definitely stated on behalf of the R.P.U. at this meeting, that if those who negotiate for us should refuse such offers as are made by the Ministry of Health, the Government would give the work to doctors' dispensaries. Candidly, I do not believe this.

The Debt

which European civilisation owes to ancient Greece is recognised universally. Literature, art, politics and science—all equally gladly acknowledge the beneficent influences which had their springs in that distracted microcosm. The profession of medicine is unceasing in tracing to that land the essential, the vivifying, sparks of truth which now animate the numerous students who seek out the processes of life and of disease. Your note in the *C. & D.* of April 28—"In Praise of Imhotep"—serves to impress upon one the greatness of the influence which the civilisation of ancient Egypt had upon that of Greece. During the present century this has been exhibited in a remarkable manner because of the extensive explorations in Egypt and the intensive study of the many valuable papyri which have come into the hands of so many eminent scholars. Dr. Hurry has given us an excellent account of Imhotep in the book to which you allude. It was written with a double purpose, namely, to make the medical profession acquainted with one of the earliest-known physicians who became so celebrated that a succeeding age raised him to the rank of a god—the god of Egyptian medicine—and to suggest that his fame and antiquity entitled him to be regarded as the patron deity of medicine, rather than Asklepios, whose name first appears in the pages of Homer, whereas Imhotep was in the court of Zoser, a Pharaoh of the Third Dynasty (about 3000 B.C.). An important monograph on Imhotep was written a quarter of a century ago by Professor Kurt Sethe, entitled "Imhotep der Asklepios der Aegypter ein vergötterter Mensch aus der Zeit des Königs Dozer [Zoser] (1902)." Professor Sethe made a thorough study of the life of his subject, and treats of it in such a manner as to show his many activities as an architect, a builder, an alchemist, an astrologer, an author, as well as a physician.

Another Noteworthy Contribution

to the fame of Imhotep (whose name is spelt in several ways and who was known to the Greeks as Imouthes) was made by the late Dr. Richard Caton, of Liverpool, in his Harveian Oration of 1904. It is now apropos because of the special Harveian celebrations. Dr. Caton gives many quotations from medical papyri from which he drew the conclusion that "it is evident that the Egyptians knew that blood flowed from the heart, but, like the Greeks, they never seemed to have realised that the heart is a pump, nor did they recognise valves." His remarks on the pre-eminence of Imhotep may be profitably recalled now that the immense influence of ancient Egyptian culture is so much better known. He says: "In England we have overlooked the importance of Egypt as a primary source of the science and art of medicine. If we regard with reverence the dim traditional form of Asklepios as a founder of our art, and the Asklepieia where throughout Greece and Magna Græcia medicine was practised and taught, in greater degree should we reverence the much more venerable I-em-hotep and view with interest the primæval medicines and hospitals of Egypt." Dr. Caton thought that of the six divine books, of which the Ebers papyrus was probably one, which were ceremonially attributed to Thoth, some considerable part was most likely the work of Imhotep. [This is not, however, the view of Professor Sigerist (*C. & D.*, 1927, I, 797).—EDITOR.] There seems to be little doubt that he designed the well-known Step-Pyramid of Sakkarah, near Memphis, as a tomb for his master, King Zoser. The eulogy written upon him by Dr. Caton is the picture of a man who was fitted to be held in reverence by artists of every profession. "I-em-hotep," he says, "rises before us as one of those intellectual giants who take all knowledge for their province. In his comprehensiveness he surpasses Leonardo da Vinci or our own Linacre; he is distinguished as a physician, a minister of the king, a priest, a writer, an architect, an alchemist and an astronomer—great in all, but greatest in medicine; in the view of Egypt he is a god." This deified physician stands at the very source of the stream of medical teaching which flowed from Egypt through Greece down the ages; he seems well fitted to occupy the chiefest place in the great pantheon of medicine.



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Editorial Articles

Photographic Dealers' Interests

THE sale of photographic apparatus and accessories is to-day an important part of most chemists' businesses. So far as numbers and turnover are concerned, chemists form the largest proportion of retail dealers in photographic supplies in the country, consequently, as a whole, they are, apart from the manufacturers, more interested in the recent proposals to safeguard the trade than any other class of dealer. During recent years the number of businesses in which photographic goods are sold has increased enormously, but a large number of these new dealers confine their activities to the sale of one or two of the more profitable and frequently demanded lines. It has been realised by many of the leading dealers that this type of trader, owing to lack of technical knowledge, is more of a menace than an asset to the welfare of the photographic business, and they approached the manufacturers with the idea of regularising the opening of new accounts. The outcome was a number of proposals embodying restrictive clauses, but, happily, the scheme was abandoned in favour of the modified arrangement published in the *C. & D.*, February 4, p. 140. The position until October 1928 is, briefly, that the manufacturers are restricting the opening of new dealer accounts to photographic dealers, chemists and druggists, professional photographers, opticians, and departmental stores. Meanwhile the Photographic Dealers' Association has undertaken to increase its membership to 6,000 in order to be representative of the trade, so that on October 1 the manufacturers will form an association "which will agree with the Photographic Dealers' Association to restrict the growth of dealer representation" by forming a joint council of manufacturers and dealers for the purpose of authorising new dealers. When the Photographic Dealers' Association was inviting support for the original (restrictive) scheme it was estimated that there were between 10,000 and 12,000 dealers, but when names and addresses were supplied by manufacturers 18,000 circulars were sent out, of which, owing to duplication, businesses being closed and changes of address, 3,000 were ineffective. As we pointed out at the time (*C. & D.*, February 4, p. 144), since no one having an account with a manufacturer was to have his supplies stopped, assuming there were 15,000 legitimate dealers, 6,000 could hardly be described as representative of the trade. It is now considered, we are informed, that the former figure is too high and that the latter represents approximately three-quarters of the number of dealers. There are at the present time over 12,000 chemists' businesses, including the multiple shops, and assuming that photographic goods are sold in 75 per cent. of them (a conservative estimate), then among chemists alone there are

9,000 dealers. Since the number of opticians, those who deal exclusively in photographic goods and other traders who have accounts with manufacturers is by no means an insignificant minority, we are still of the opinion that the minimum figure considered representative is too low. As the result of the circular sent out by the Photographic Dealers' Association on March 24, membership of that body was increased to 3,000, i.e., an accession of about 2,000. Another invitation to join the Association was sent out on April 28, and as a result of this and other organising schemes, such as visits of members of the executive to local meetings of dealers, the membership has been further increased. Since the commencement of the propaganda campaign local associations have been formed at Cork, Dundee, Sunderland, Hull, Bedford, Southend-on-Sea, Eastbourne and Plymouth, while some twenty others are in the process of formation. The attitude of the Birmingham dealers was particularly referred to in recent articles, so that it is interesting to note that that local association has affiliated to the larger body. For the moment everything seems satisfactory, but the matter which is of importance to chemists is what will happen after October 1. If the required quota is obtained, what is likely to be the effect of restricting accounts; if it is not, will business revert to the status of 1927, or will the opening of accounts be controlled as during the present season? As chemists are likely to form the majority of the members of the Association, and therefore to have considerable influence on the policy to be pursued, there are a few points to which we would call attention. The object in view is the controlling of accounts—not prices—mainly owing to the widespread sale of roll-film by traders having no technical knowledge, but it can hardly be disputed that in the case of most articles the easier they are obtainable the greater the sale, and to this roll-film is evidently no exception—or why the automatic machines, of which it is estimated that 2,000 will be in use this summer? The “unwanted” dealer does not do developing and printing, it is stated so that this business goes through the recognised trade channels, as Mr. Heaton pointed out (*C. & D.*, February 4, p. 140). Restrict the sales, and part at least of this business disappears. Another point in connection with the curtailing of purchasing facilities of roll-film, and one which will be news to many readers, is that more than one person in the trade is interested in the possibility of placing the two most popular sizes on sale through a well-known multiple stores. At the moment the proposition does not seem feasible, but it is full of possibilities which should not be overlooked. Also, can it be taken for granted that no attempt will be made to introduce here a foreign-made film which would be sold at a cut price through traders regarded as “ineligible” dealers? Before adopting or changing a policy it is necessary to examine as far as possible the results likely to ensue, and while we do not wish to minimise the advantages of curtailing the number of new dealers, there are undoubtedly some points which seem to have been either overlooked or ignored, and it must be admitted that doubts are expressed in some quarters as to whether restriction will prove the panacea it is claimed by its sponsors. Another matter of considerable importance to chemists if they desire to retain that pre-eminence in the photographic trade that they have hitherto held, is that they must keep abreast of the latest developments. The theoretical side is dealt with periodically in the “Progress of Pharmacy” section of the *C. & D.*, while from time to time—as will be found elsewhere in this issue—we review the latest products of the manufacturers. If, owing to its high price or for some other reason there appears to be no likelihood of a chemist selling a particular piece of apparatus, that is no reason why he should ignore it; on the con-

trary, this knowledge may enable him to supply the special requirements of a customer and thus effect a remunerative transaction. Apart from this side of the question, it is to his interest to keep acquainted with the innovations introduced in an art which constitutes one of his best side-lines, the one in which he is able to display his technical as well as scientific knowledge, and which has now become one of the most popular of hobbies, with millions of followers, all potential customers.

Turpentine and White Spirit Duty

LAST week's Budget disclosure as to the enforcement of an import tax of fourpence per gallon on turpentine oil and white spirit alike proved an unpleasant surprise to the trade in these products, particularly the paint and varnish manufacturers who are the largest users. Cost of import to the consumer has thus been increased to that extent on and from April 25 last. This innovation has naturally enough aroused a certain amount of adverse criticism on the part of the chief consumers. In a letter which appeared in “The Times” from a trade authority, it was contended that the intimation of “the duty being extended to one single vegetable oil, turpentine, which is in active competition with white spirit” as referred to in the Budget speech, was a serious misconception of facts. The letter stated that white spirit is an adulterant of turpentine, while pointing out that turpentine was priced at 3s. per gallon and white spirit at roughly 1s. per gallon, furthermore, that the duty will naturally be a handicap on the export paint trade, which is already in close competition with near Continental ports where linseed oil is cheaper than on this side, turpentine, however, selling at the same price. Therefore, the increase in cost to the consumer arising from the levy of 4d. gallon amounts in the case of turpentine to slightly over 11 per cent., but three times that amount for white spirit, or 33½ per cent., so that the resinous product—turpentine—is really enjoying a preferential treatment to the extent of 22 per cent. Immediately following the Budget statement, not a few buyers who had old contracts outstanding in both products were uneasy in their minds as to their position or as to whether they were liable or not for the tax, but this was made pretty clear by an official circular issued to the trade by the Commissioners of Customs and Excise to the effect that the additional cost of 4d. per gallon was being added on all deliveries from midnight, April 24. On Friday last, however (April 26), the official quotations for turpentine on the Baltic Exchange were issued on a revised basis, including the equivalent of the 4d. per gallon duty, namely, 4s. per cwt., which thus accounted for the nominal advance of fully the latter amount on a somewhat firmer market at about 42s. 3d. per cwt. for spot near delivery. This means, of course, that the exact definition of the delivery terms under the contract for American gum spirit has been made to embrace “duty paid” ex wharf, so that the sellers are now seeing to the duty. Arrangements were made with public wharves that all weight notes against deliveries were to be issued from midnight, April 24, and to also include the gallonage delivered in order to facilitate the collecting of the tax. All particulars relating to the duty are obtainable at any Customs House also in respect to the treatment of imported paints and varnishes or any goods containing dutiable oils, which are liable to the duty in proportion to the quantity of such oils used in their manufacture. On the other hand, it is understood that provision will likewise be made for a drawback of the duty paid on such imported oils as shown to have been used in the manufacture of articles exported from the United Kingdom. It will therefore be realised that this novel taxation of two important descriptions of raw

material—which play an important part in the industry of paints and varnishes—and its extension to the various kinds of manufactured articles will tend to add many little difficulties to manufacturers, as well as to import and export merchant firms, apart from additional costs. It is naturally apprehended that manufacturers will be more or less handicapped, while it will probably be some time before they know precisely how they will be affected by the Customs regulations put into practice at a moment's notice. The tax on petrol had been fully expected, and its extent fully confirmed the forecasts which emanated from Parliamentary circles, and evidently Mr. Churchill could not and presumably did not wish to eliminate white spirit from the list of the lighter hydrocarbon oils which are imported or derived from imported materials. Having gone so far, he was doubtless tempted to increase revenue resources by a similar tax on the higher-priced article—turpentine—despite the latter not being in the same category. Having regard to its current value, which is fairly well in line with pre-war low levels, the cost to users including the duty at upwards of 42s. per cwt. is admittedly still relatively low, but in the event of any bad crop season being experienced, the price usually becomes quickly inflated, in which case the duty now in force would be seriously felt by manufacturers. On the full normal import requirements of turpentine for home use of, say, roughly, 100,000 barrels, or approximately 40 million gallons, the Chancellor of the Exchequer may expect to draw a revenue of about £66,000, which, after all, is small compared with the revenue anticipated from the other oil products similarly taxed.

"Quarterly Journal of Pharmacy"

THE disappearance of the familiar "Year-Book of Pharmacy," the publication of which has been continuous since 1870, has been followed by the issue, under the Pharmaceutical Society's auspices, of the "Quarterly Journal of Pharmacy and Allied Sciences." The first number (8½ in. by 5½ in., pp. 162, 10s.) receives a good "send off" in the form of an historical introduction by the president of the Society (Mr. Herbert Skinner), and is also fortunate in securing for its first article a contribution by the president of the Royal College of Physicians (Sir John Bradford) on "The Outlook in Pharmacology and Pharmacy." This is followed by seven original papers, entitled respectively "The Pharmacological Assay of Digitalis by Different Methods," by J. W. Trevan and Ellen Boock, J. H. Burn and J. H. Gaddum; "A New Method for the Assay of Ointments of Mercuric Oxide and Ammoniated Mercury," by Noel L. Allport; "A Method of Assay of the Antirachitic Vitamin D," by Katharine H. Coward; "The Œstrous Cycle in the Guinea Pig and the Suitability of the Uterus for the Estimation of Pituitary Extract," by Marianne Goettsch; "Strychnine Hydrochloride: Its Composition and Solubility," by John Edmund Driver and Stephen Percy Thompson; "The Solubility and Rate of Solution of Arsenious Oxide, B.P.," by G. E. Trease; and "The Growth-Promoting Properties of Vitamin D," by A. L. Bacharach. The balance of the issue is made up by 102 pages of abstracts, some of which are taken, with due acknowledgment, from THE CHEMIST AND DRUGGIST. The prefatory matter of the journal includes a brief account of the Pharmaceutical Society and lists of members of the Council, the editorial committee and the abstractors. The four issues of each year are collectively to replace the "Year-Book": as the president explains, it has been considered "desirable that the data obtained should not be held up for annual publication," but that it should be made available quarterly. In the case of original contributions there is a manifest advantage in the prompt exposition of processes and results.

Sicilian Essential Oils

THE sharp advance in shipment prices in orange, lemon and bergamot oils has been the feature of the essential oil market for some weeks past, and the figures at the moment indicate an impending crisis in the industry. It should be pointed out that in the case of bergamot the increase appears to have been brought about without adequate reason. Bergamot oil for some years past has always been in very strong hands, and as there has been no shortage, it is reasonable to assume that the holders are adopting an independent attitude due to the probability of making a considerable profit out of the orange and lemon oil situation. Various causes have contributed to the shortage of orange and lemon, but the most important has been the constant activity in the export of fresh fruit. The fruit exporters can pay much better prices than the oil pressers could afford in view of the previous price of the produce and the cost of production. This limitation in the production has brought a gradually increasing strain on the market, which has been augmented by similar conditions in the other producing centres. The shortage, particularly in orange, is world-wide, and several inquiries have been received on this side from American buyers. Holders at the source are not disposed to sell, and exporters are experiencing great difficulty in inducing the producers to part with their supplies. It is confidently expected that, if warm weather is encountered during the summer months, very fancy prices will be seen for orange oil, as the shortage is acute and cannot be remedied until the late months of the season.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist & Druggist,' 42 Cannon Street, London, E.C.4."

QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, May 8, on which day the samples will be posted. Students' reports will be received up to Saturday, May 19. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this analysis will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports*. Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours*. Correspondents who do not state that they are preparing for a Qualifying examination will be included in the latter list.

NEGOTIATIONS for reopening the exhibition buildings and grounds at Earl's Court, London, are proceeding, and it is expected that the premises will be available for trade exhibitions in 1931.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.—The president and committee of the National Association of Women Pharmacists will be "At Home" to members and all women pharmacists in the Loggia at the Chemists' Exhibition, Holland Park Hall, London, W.11, on Wednesday, May 9, from 6.30 to 8 p.m. Music and light refreshments.

Pharmaceutical Society of Great Britain Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on May 2, Mr. Herbert Skinner (president) in the chair. Mr. Neathercoat was the only absent member.

DEATH

The PRESIDENT said he must first call the attention of the Council to the death of Sir Richard Robinson, who died at Whitby on April 28. Many of them would know Sir Richard in the old days, although the newer men had probably only met him when the Conference was held at Scarborough, on which occasion Sir Richard received them at Whitby. There were one or two things connected with Sir Richard that made him an outstanding figure in pharmacy. He thought the principal one, and one that appealed to pharmacists especially, was that he was the prime mover in bringing about the removal of the ban which prevented chemists and druggists from becoming members of the Council. It was the Act of 1898 which allowed chemists and druggists to be full members of the Society instead of mere associates. It seemed so long ago now as to be old history, but many of the older members would remember it quite well. The president proposed the following resolution:—

That this Council learns with deep regret of the death of Sir Richard Atkinson Robinson, at the age of seventy-eight years. The Council recalls with gratitude his services to pharmacy in securing the extension of membership of the Society to all registered persons, as a member of Council for four and a half years, and as its president for two and a half years. They recall also his public work, which included the offices of Chairman of the London County Council, a Deputy Lieutenant for London, and a member of the Thames Conservancy. His life will long be remembered as an example of unselfish work for the good of his craft and for the community. The Council tender their respectful sympathy to his family in their bereavement.

The VICE-PRESIDENT having seconded the resolution, the Council signified their approval by standing in silence.

ELECTIONS AND RESTORATIONS

One hundred and twelve persons were elected members of the Society, and thirty-one persons as student-associates. A number of persons were restored to the register, and several persons to the Society. The registrar reported that sixty-three persons had been registered as apprentices or students.

INVIGILATORS

The following were appointed invigilators to conduct the scholarships examination:—Birmingham, E. C. Bennison; Cardiff, W. G. Boulton; Edinburgh, D. McEwan; Exeter, F. Southerden; Leeds, —; Manchester, J. Wild; Newcastle, R. Hepworth; Norwich, A. S. Huggins.

ANNUAL MEETING

The annual meeting of the Society was fixed for Wednesday, May 16, at noon.

A MUNIFICENT LEGACY

A letter was read from Mr. C. A. Carey, Guernsey, announcing the death of Mr. Rammell, and stating that he had left the Society a legacy of £1,250 for investment, the income from which might be used to provide prizes or scholarships, or in such other manner as the Council might determine at their discretion.

Mr. ROWSELL said this was the second legacy which he had known coming from Mr. Rammell for educational purposes. Mr. Rammell was an apprentice to the late Mr. Jackson, Crediton, and won the herbarium prize in 1870. He came to the Society's school in 1872 and won medals for chemistry, materia medica and botany. Afterwards he went out East. He (the speaker) wished to make the suggestion that the legacy should be used in connection with the Pharmacological Laboratories or some scholarship in that direction.

The PRESIDENT said he welcomed Mr. Rowsell's statement. With regard to the question of scholarships, that was a matter for the Education Committee.

The matter was referred to the Education Committee.

INTERNATIONAL PHARMACEUTICAL FEDERATION

A letter was read from the International Pharmaceutical Federation, stating that the next meeting will take place in Paris on July 11 and 12. Professor Greenish, Mr. Peck and the secretary were appointed delegates, and it was mentioned that Mr. White would be attending the meeting *ex officio* as a vice-president.

Mr. PECK drew attention to the fact that it was open to any member to attend the meeting as an associate member. Anyone who wanted to be an associate member should apply to Dr. Hofman, and perhaps the secretary of the Society would act as an intermediary. An important consideration was that the meeting coincided with the Jubilee meeting of the Pharmaceutical Syndicates of France.

Mr. GUTHRIE supported Mr. Peck's suggestion, and Mr. HINES intimated that he wished to be a delegate, though not an official one.

The PRESIDENT asked the secretary to call the attention of members to the matter.

EDUCATION COMMITTEE

The report submitted by the Education Committee showed that they had discussed the further letter remitted by the Council from the Edinburgh and South-East of Scotland Branch on the question of the period of apprenticeship, and decided that it should be further considered in connection with the revision of the Regulations. The Committee are considering the best arrangements to make for the consolidation of the examination regulations and for the preparations for the new examination in October 1929. They have come to the conclusion that the best plan will be to prepare a full report upon the different questions, and to submit this report to the Council for consideration by the two boards of examiners and the North British Executive. As a number of the points to be decided upon are matters for experts, the Committee have appointed a small subcommittee to prepare the portion of their report dealing with these subjects. The report was adopted.

BENEVOLENT FUND COMMITTEE

The report of the committee showed that twelve applications had been received, and grants made ranging from £20 to £26. The following special contributions were announced: Portsmouth Pharmacists' Association, £3 3s.; Pharmaceutical Committee for the County of Kent, per J. E. French, £5 5s.; Hull Branch, £2; Anonymous, £100; Social Committee of the Birkenhead and Wirral Pharmaceutical Association, £7; Galen Lodge, per J. H. Cuff, £2 2s.; North-Western Federation of Pharmaceutical Associations, £21 19s. 9d.; Swansea and District Branch, £5 5s.; Middlesbrough and District Pharmacists' Association, £2 12s. 6d.; Exeter Branch, £6 14s. 10d.; Croydon Branch and Association, £3; Ealing and District Association, £10 11s. *Orphan Fund*.—Portsmouth Pharmacists' Association, £2 2s.

Mr. SIMMONS stated that the Committee had now received the £100 from the anonymous donor in accordance with the promise that that sum would be paid if the subscriptions of members exceeded those of last year by £400. Referring to the contribution from the North-Western Federation of Pharmacists he explained that it was one of the first districts to be formed, but ceased to function when the branches came into being. It had been wound up and its funds very generously given to the Benevolent Fund. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

This Committee reported that during the month three applications had been received, and recommended grants of £65, £80 and £180 respectively. In the three months ended March 31 thirteen cases had been dealt with, and eleven grants totalling £645 had been made. The report was adopted.

ESTABLISHMENT COMMITTEE

The Committee considered a letter from the director asking for further assistance in the vitamin department

on account of the increase in the work there, and decided to recommend various additions to the staff.

Mr. WHITE said he hoped considerable publicity would be given to the need for a pharmaceutical chemist in the laboratories, for the suggested appointment would mean carrying out the idea of the Council that the work should form part of the pharmacist's training.

Mr. ROWSELL referred to the recommendation regarding the pharmacological laboratories, and hoped the fullest possible publicity would be given to the matter. When vacancies occurred they wanted to get men into the laboratories who had had pharmaceutical training. There was a distinct opening for one, two or three pharmacists with a special bent in this direction. He hoped their young members who had the necessary qualifications and ability would apply for the berths as they became vacant.

Mr. SIMMONS spoke of the work of Dr. Burn and Dr. Coward, and said he had heard great appreciation expressed of what they did in the recent case at Salford.

The PRESIDENT said he thought something more energetic should be done than the mere pious expression of opinions. It was very difficult for anyone to do the sort of work under consideration unless they received encouragement to go and apply for the vacancies. If someone took a personal interest in the likely men, they were more likely to apply than would otherwise be the case. He wondered how far the suggestion could go to the various branches, because it was quite possible there were members well equipped for the work who were not aware of the opportunities available.

Mr. JENKIN said he did not think the report went quite as far as the discussions in the committees on the subject. It seemed to him that if the Education Committee had taken in hand the matter of dealing with the legacy which had been so opportunely left to the Society they might take into consideration this other question, and perhaps offer a scholarship in addition to any payment made by the Council. He thought here was an opening to rope in some young pharmacist and make him an expert in the work which they all thought it necessary to carry out in the Pharmacological Laboratories.

Mr. PECK assured the Council that the Education Committee would give careful consideration to the whole question, and it was then referred to the Committee. The report was adopted.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £45 13s. 11d., amounted to £5,030 17s., comprising the following items: Subscriptions, £2,885 8s.; examination fees, £4 4s.; registration fees, £195 6s.; restoration fees, £2 2s.; School of Pharmacy, £10 10s.; Pharmacological Laboratories, £112 7s.; penalties, £145 4s.; "Pharmaceutical Journal," advertisements, etc., £828 1s. 6d.; "Pharmaceutical Journal," student-associates' subscriptions, £5 15s. 6d.; Quarterly Journal, £8 2s.; "Pharmaceutical Pocket Book," £14 14s.; Pharmaceutical Press publications, £13 11s. 3d.; Registers, £66 5s. 1d.; Year-Book, £4 19s. 1d.; B.P. Codex, 1923, £128 13s. 3d.; interest on investments, £207 18s. 5d.; sundries, £2 2s.; transferred from deposit account, £350. Payments ordered at the last meeting amounted to £5,018 13s. 3d., leaving a balance of £12 3s. 9d. The balances on the other accounts were: Benevolent Fund (current account), £5 12s. 2d.; Benevolent Fund (donation account), £89 12s. 11d.; War Auxiliary Benevolent Fund, £19 18s.; Orphan Fund, £20 9s. The report recommended that accounts amounting to £5,747 19s. 8d. be paid, and that the action of the secretary in making payments amounting to £937 9s. 4d. be approved. The Committee had considered the investment of the £1,250 bequeathed by the late Mr. Edward Rammell, and now recommended that it be invested in 5 per cent. War Stock 1929-47. The report was adopted.

This was all the public business.

Annual Report

The following are the portions of the Council's annual report which are of general interest to chemists:—

Finance.—The income of the Society during 1927 amounted to £55,463, an increase of £3,190 compared with the preceding year; and the expenditure to £52,952, or £3,677 more than in 1926. The revenue from all other important sources, including the revenue of "The Pharmaceutical Journal" and of the Pharmacological Laboratories, has increased with the exception of that received from registrations as apprentices or students. . . . The fall in the number of registrations calls for consideration from the point of view of its reaction on future revenue. The number of students registered in 1927 was 1,764, against 2,413 in 1926 and 2,049 in 1925, but the large numbers in the last two years were largely accounted for by an abnormal rush to register before February 1, 1927, when new regulations governing registration came into force. . . . The surplus for the year, which has been added to the accumulated fund, is £2,210 6s. 4d., compared with £2,697 16s. 10d. for 1926.

Registers.—The number of names on the registers of Pharmaceutical Chemists and Chemists and Druggists at the end of 1927 was 21,045. There is a decrease of twelve pharmaceutical chemists and an increase of 515 chemists and druggists over the preceding year. The Society's membership has increased by 624 compared with 1926, the total membership on December 31, 1927, being 13,566. The number of student-associates is now 1,965, being a decrease of two. The number of persons registered as "apprentices or students" during the year was 1,764. The number of persons registered as the superintendents of limited companies, firms, or partnerships under Section 3 (4) of the Poisons and Pharmacy Act, 1908, is now 1,300, being an increase of 78 over the number so registered at the end of the preceding year.

Legal.—During the past year the regular inspection of shops mentioned in the last annual report has been steadily continued. The number of chemists' shops inspected in Great Britain amounted to 6,013, this being an increase of more than 1,400 over the number for 1927. It is gratifying to note that in only 64 shops was no certificate being shown. In addition to these, 1,582 drug stores and other shops were also visited in order to ascertain whether breaches of the Pharmacy Acts were being committed. As a result of these investigations, a certain number of cases were brought before the Law Committee, which recommended the Council to authorise proceedings in 203 cases.

Examinations.—The number of entries (including re-entries) for the whole or part of the Qualifying examination during 1927 was 4,335, and there were eighty-seven entries (including re-entries) for the Major examination, showing an increase of 675 on the former and an increase of eleven on the latter when compared with the entries in the previous year. Eight hundred and fifty-five persons passed the Qualifying examination and thirty-seven the Major.

Regulations.—During the year representations were made by the Scottish board of examiners that the syllabus for the Preliminary Scientific examination would be improved by the addition of more organic chemistry. This suggestion received support from the board for England and Wales and from the pharmacy teachers, and the Council has accordingly decided that when the regulations are next revised the opportunity will be taken to introduce a certain additional amount of organic chemistry. The Council has also decided that with the coming into force in October 1929 of the new system of examination and the separation of courses for the Preliminary, Scientific, and Chemist and Druggist Qualifying examinations, the opportunity shall be taken to unify the type of course to be approved for the Chemist and Druggist Qualifying examination. It has accordingly been decided that, in order to obtain approval for the purposes of the Regulations, a course for the Chemist and Druggist examination must provide for the adequate and continuous attendance of students for not fewer than 900 hours spread over not less than one session of approximately nine months. . . .

Education.—Eleven institutions have now been approved for the purpose of training students for the Pharmaceutical Chemist Qualifying examination and the examination for the Degree of Bachelor of Pharmacy of the University of London. . . . The regulations for the Bell, Manchester, and Leverhulme scholarships have been revised and correlated, and one examination only will now be held in those subjects common to two or all of these scholarship examinations. In order to make the three post-graduate scholarships—namely, the Burroughs, Redwood, and Ransom—more attractive the Council has adopted a scheme whereby each scholarship is awarded on the same basis, and the terms of award and the privileges attaching to the scholarships have been brought into line with modern conditions. One scholar-

ship will be offered each year, and will be tenable for two years in the Society's Research Laboratories. The scholar will receive £100 per annum and also be given free of charge all facilities for research. . . .

School.—As a result of the changes recently effected in the School of Pharmacy, there are now given in the School, in addition to a course for the Chemist and Druggist Qualifying examination, the first year of a two-years' course for the Degree of Pharmacy, and also the second year of the same course. . . .

Science Committee.—The Committee has devoted much time during the year to work on the improvement of formulas in, and on the addition of new preparations to, the British Pharmaceutical Codex. . . . A census of pharmaceutical research has been taken to ascertain the names of those likely to be able to give information on pharmaceutical substances and preparations. . . . The Railway Clearing House and the Home Office were approached with the object of securing the exemption of picric acid in small quantities from the regulations governing the transport of explosives. The exemption was obtained subject to certain conditions.

Pharmacological Laboratories.—These laboratories have completed a second year of work, in which they have continued to carry out research work and to perform biological tests on behalf of manufacturing firms. During the year the vitamin-testing department, under Dr. Katharine H. Coward, was opened, and has been fully occupied. The application of the provisions of the Therapeutic Substances Act began on August 6, and resulted in an increased amount of work for the laboratory. The director is now assisted by Mr. Frank Wokes, B.Sc., F.I.C., Ph.C., and Dr. Coward is assisted by Miss Key, B.A. A grant was made by the Council to Miss Marianne Goettsch, M.A., for a special investigation extending over six months on a method of assay for Vitamin C.

Journal.—Owing to the continued growth in the membership of the Society, the circulation of "The Pharmaceutical Journal" has increased considerably as compared with 1926. The Council is glad to be able to report that this increase has not been reflected in an increase in the cost of the Journal to the Society as compared with the previous year. It has been found possible by reviewing the charges for advertising and by introducing other changes tending both to economy and efficiency to reduce the cost appreciably. The Council has decided that the Journal shall be developed as a business newspaper for chemists and druggists but with due regard to publication of official transactions and matter of scientific and educational interest.

Branch Organisation.—The total number of branches is 115—110 being in England and five in Scotland. The Organisation Committee . . . provided speakers for 103 branch meetings during the year, and the expenses of branch organisation have been £2,881. . . .

British Pharmaceutical Conference.—The British Pharmaceutical Conference met this year at Brighton from June 20 to June 25. The members paid a visit to Eastbourne, the arrangements for which were undertaken by the Eastbourne Branch of the Society. Four hundred and twenty-two persons attended the whole Conference, and there were in addition a considerable number of visitors for shorter periods. The arrangements for the large number of visitors placed a considerable burden upon the Local Executive Committee and its various sections, and the successful result of the Conference was largely due to their efforts.

Committee on the Pharmacopœia.—In the last annual report the Council recorded the appointment of a Committee by the Privy Council, which was to inquire whether any alterations were desirable in the methods of production of the British Pharmacopœia, and that the Society had given evidence before it. It is understood that the deliberations of the Committee are now completed, but the official report is not yet available.

Benevolent Fund.—The Council has again to report that the Fund does not receive the support it merits. Notwithstanding the large number of new members elected during the past few years, the subscription income was again less than in the previous year, and in October, it was found necessary to borrow £1,000 from the general fund of the Society in order to meet liabilities to the end of the year. For many years past it has been the custom at ten-yearly intervals for an appeal to go out in one form or another to a number of wholesale and manufacturing houses to make a donation to the Fund. An appeal fell due to be made in 1927, and in response to it a number of very generous donations were again received from individual members and firms who have for many years been supporters of the Fund. The result of this was that a sum of £6,034 was received, as compared with £4,243 during the previous year, and the solvency of the Fund is for the present assured. The Chairman of the Committee has repeatedly drawn attention to the necessity for a larger annual income from

subscriptions, as the amount received from this source, together with the interest on investments, is insufficient to cover the annuities and the casual grants. The work of the Committee is restricted by uncertainty as to the amount of income, and the hope is expressed that there will be a considerable increase in subscriptions during 1928. In December last five additional annuitants were placed on the permanent list, and there are now forty-eight recipients of a regular annual allowance ranging from £20 to £50, according to their special circumstances. The expenditure on annuities amounted to £1,882, which was augmented by a special Christmas bonus amounting to £440. The sum expended in casual grants amounted to £2,552.

War Auxiliary Benevolent Fund.—The sum of £1,673 was expended in grants from this Fund during 1927, reducing the accumulated Fund by £1,063, and leaving an unexpended balance of £12,141. . . .

Departmental Committee.—The Council had anticipated that the report of this Committee would have been published during the year. The Committee was appointed in June 1926, but its report has apparently not so far been completed. Before the recommendations of this report can become effective an amended Pharmacy Act will be needed, and it was in view of the possible introduction of a Bill that the Council took steps to raise a sufficient sum of money to enable action to be taken in Parliament should it become necessary. The sum of nearly £10,000 was collected, and has been handed over to be administered by a committee representative of all sections of the drug trade. The Council understands that assistance is being, and will be, given to pharmacists desiring to seek election to the House of Commons.

Obituary.—In the report for the year 1927 the Council referred to the resignation of Sir William Glyn-Jones as secretary and registrar of the Society upon his acceptance of the office of chairman of council of the Proprietary Articles Trade Association of Canada. It is with the deepest regret that it is necessary to record in this year's report his death in September 1927, only a few months after his resignation. The work that he did for pharmacy in this country, and in particular for the Pharmaceutical Society, will long be remembered, and will stand as a memorial of a life spent in the service of his craft. The president in consultation with the presidents and chairmen of the other organisations with which Sir William Glyn-Jones was associated has taken steps to arrange for some permanent memorial for the perpetuation of his memory. The Council has also to record the death of Dr. G. Balfour Marshall, for thirty-one years visitor on behalf of the Privy Council to the Society's examinations in Edinburgh. . . . Among pharmacists whose passing the Council have also regretfully to record are A. E. Chaston, of Winchester; F. C. Clayton, an ex-Mavor of Birmingham; Dr. J. Barker Smith, of Herne Hill; and S. W. Woolley, formerly editor of THE CHEMIST AND DRUGGIST.

Other matters mentioned in the report include evening meetings in London and Edinburgh, the League of Ex-Service Pharmacists, and the Orphan Fund.

Major Examination Results

At the Major examination of the Pharmaceutical Society, held in London in April, fifteen candidates were examined; the following six passed:—John N. Bennett, George Dodds, Frederick G. Hobart, George A. Nelson, Margaret Wells, Richard A. Williams.

Manchester.—The annual meeting of the Manchester, Salford and District Branch of the Pharmaceutical Society was held on April 18 at the Houldsworth Hall. Mr. William Kirkby presided. The secretary (Mr. T. Miller) read the report of the executive in the absence of the treasurer (Mr. A. J. Pidd). The report stated that expenditure had not exceeded income and that there was a balance in hand of £38 15s. 11d. The election of the executive for the ensuing year resulted as follows:—For Manchester: Miss Roberts, Mr. Pidd, Mr. Franklin, Mr. Miller, Mr. Grier, Mr. Brindle, Mr. Thorpe, Mr. R. G. Edwards. For Salford: Mr. Simmons, Mr. Stout, Mr. Davison, Mr. Meadows. For the county: Mr. Kirkby, Mr. Bates, Mr. W. Edwards, Mr. Berry, Mr. Scholes, Mr. Burgess. An excellent musical programme was arranged by Mr. W. E. Archer, who also provided the instruments and gramophone records. A vote of thanks to the chairman, proposed by Mr. Simmons, was passed with acclamation.

Council Election Meeting

A MEETING of the East Metropolitan Branch of the Pharmaceutical Society was held at Forest Gate, on April 26, to hear addresses from candidates who are offering themselves for election to the Council.

Mr. J. THOMSON (chairman) commented on the fact that, of the fourteen candidates, only Mr. Beardsley and Mr. Wells had deemed it worth while to come to that meeting. He afterwards announced that the president of the Society and Mr. Marns were detained in Scotland on the Society's business. Letters of apology for absence, and in some cases brief statements of policy, were read from Messrs. H. Antcliffe, Alban Atkin, Percy Barrs, L. Moreton Parry, W. J. Peacock, E. Saville Peck, R. Robinson and E. L. Slade.

Mr. F. G. WELLS, in his address, said he had had about twenty-three years' experience of retail pharmacy, both in the provinces and in London, and could therefore claim to have a good knowledge of what was required by the pharmacist behind the counter. He had also had experience of work in the local associations and the R.P.U. Outlining his policy, Mr. Wells said, in the first place, he believed that the sale of poisons and the administration of the Pharmacy Acts should remain in the hands of the Pharmaceutical Society. His second point was that they should seek to secure a simplification of the poison-regulations, which should be made more reasonable. He was thinking in this connection of the report of the Departmental Committee on the subject. Members of the Council, in his opinion, should be men with retail experience, and should see to it that any new regulations were not made as bad and cumbersome to deal with as they were under the Dangerous Drugs Acts. He was particularly keen on the retention of the title "chemist." Although they had the name "pharmacist," he did not think this was held in much regard by the general public. If they could do away with the title of "pharmacist," and go back to that of "chemist," it would not only be better for members of the Society, but also for the public. All dispensing in public hospitals should be carried out under the supervision of a qualified pharmacist. He was in favour of the scheme to secure the direct representation of pharmacy in the House of Commons by all available means. If elected to the Council, he would press for direct representation as soon as possible. With regard to the status of pharmacists in the Forces, he was of opinion that they should be given commissioned rank in exactly the same way as doctors and dentists. He expressed himself in favour of the extension of the junior branch movement. "The Pharmaceutical Journal" should be run on a practical business basis, for a considerable part of the subscription was used in connection with the magazine. All the foregoing points, he emphasised, were the aims of the present members of the Council. He favoured a reduction in the subscription in the case of the non-proprietor members. There were a tremendous lot of assistants who were not in a position to pay 31s. 6d., and he thought these, as well as managers not in business for themselves, should be admitted to membership at a reduced fee of a guinea. Although not himself an optical man, he had an optical business, and was therefore interested in the subject up to that point. In the event of any optical Bill becoming law, the Council should look after the interests of members, and those already practising optics should have their position safeguarded. He was supporting the present policy of the Council, and should continue to help them, if elected, as long as they acted in accordance with it. At the same time, he did not intend to follow anyone blindly, and would act independently should the occasion arise for him to do so. (Applause.)

Mr. W. J. BEARDSLEY recalled his election to the Council three years ago, and said he believed he was then looked upon as somewhat of a firebrand. Several drastic changes had been brought about during his membership of the Council, which to-day was thoroughly democratic and was doing its best to further the interests of members in every possible way. When he was appealing for support, he declared his belief that

members of the Society should know more of what the Council were doing. To carry out this idea was very difficult indeed, and he realised that members could know very little of the work of the Council unless individual members of it visited and addressed them. As an indication of the genuineness of his desire to keep members informed regarding these matters, he had attended something like thirty meetings, as far North as Glasgow and as far South as Brighton, and had delivered addresses on the work of the Council. He had never missed a committee meeting during his three years' membership, and had only been absent from the Council meeting once, that being on account of illness. He regretted that those who were opposing the retiring members of the Council were not so far putting up any fight. Perhaps they were waiting to see which way the retiring members would jump before doing anything. It might be said that he represented one side of pharmacy only, but he could retaliate by saying that the majority of the Council represented the retail side, while he represented the wholesale. He wanted the day to pass when pharmacists looked upon themselves as tradespeople, for they had a professional training which was quite as essential to the well-being of the State as that of the doctors. He had been pressing for some time that recognition should be given to the wholesale laboratories, and had stressed the point regarding the training of apprentices. He believed that the time was coming when they would have to have a drastic fight for their title. Although they used the name "pharmacist," when they asked the man in the street where he was going his reply was invariably "To the chemist's." He sincerely hoped that they would keep their title as chemists even without any adjective. He regretted that so few men, relatively, who were engaged in the laboratories were members of the Society. If such men were not encouraged to join they would be driven to seek a qualification in one of the other organisations because of the difficulties put in their way by the Society. He favoured the acceptance of apprentices on the thousand-hour experience of a retail shop basis, and said they would then be able to get the wholesalers, the hospital men and the wholesale chemists. The majority of the papers at the last Conference were given by men from the wholesale houses. He looked to the future when these men would be admitted to the Society, because he contended that was the mainstay of their right to the title. His view was that qualification for the craft must take in all sides. Wholesalers were asking that a thousand hours' retail experience should be sufficient for an apprentice who had three thousand hours with a wholesaler to his credit. It would no doubt be said that retiring members of the Council were fighting under one banner, but a perusal of their election address would show what they had done. They were looking forward to the fight for their title, and their main point was that they were the men who framed the evidence put before the Departmental Committee. They were, therefore, asking the members to return them to the Council again. With regard to Parliamentary representation, there was no doubt that the Society had candidates in the offing, that seats would be found for them and members would be returned to the House of Commons. The retiring members of the Council had not neglected the trust put in them. Mr. Beardsley urged those present to do all they could to fill the vacancy that had occurred on the Council by giving a vote to Mr. Wells, who, he was sure, would be very welcome to Bloomsbury Square. He was asking his friends to support Mr. Wells because he believed him to be the best of the eight candidates who were not retiring members. (Applause.)

Replying to Mr. Jones, Mr. BEARDSLEY dealt with the question of publicity for the work of the Council. This, he said, was a very difficult matter, but he believed the Council were on right lines in getting branches to ask members to deliver addresses to them. It was not always advisable to say for publication exactly what the Council had on hand, but its members could always tell individually those who attended branch meetings.

On the proposition of Mr. JONES, seconded by Mr. REED, a vote of thanks and confidence in the speakers was carried unanimously.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, May 3

BUSINESS in pharmaceutical chemicals has been quiet, the only change of importance being a reduction of 8s. per lb. in saccharin. Aspirin meets with a good demand and is quite steady. Hexamine is fairly active, with competition keen. Citric and tartaric acids are quiet; soda tartarata and pulv. seidlitz are 5s. per cwt. dearer. Changes in drugs include an advance in Italian orris at the source, while spot supplies are scarce. Agar agar is a trifle easier on the spot. West African ginger is dearer, and Madras turmeric finger is easier to arrive. Ipecacuanha is dull with a sagging tendency; taraxacum is firm. In the essential oil market the citrus oils maintain the place of interest. Vetivert is firmer, and coriander, juniper berry, and spearmint are slightly easier. The industrial chemicals section shows little change, business having been dragging and mostly small in size; about the only change is an easier tendency in arsenic. Coal tar products are mostly unaltered; carbolic acid crystals meet with a brisk inquiry for export; and cresylic acid is firm but unchanged. Among the fixed oils, quiet markets continue. Linseed shows an improvement, but demand is not active. Turpentine is dull and cheaper to buy. Cotton oils are easier, while palm oils meet with fairly good business. Castor, coconut, rape, palm kernel and groundnut are all quiet. Petroleum is lower, the 4d. per gallon duty having been removed.

Higher	Firmer	Easier	Lower
Benzol Bergamot oil Ginger (African) Lemon oil Linseed oil Orange oil Orris (Flor.) Pulv. seidlitz Soda, tart.	Caraway seed Pepper Rubber Vetivert oil	Agar agar Arsenic Coriander oil Cotton oils Juniper berry oil Wood oil	Glucose Petroleum Saccharin Spearmint oil Turpentine

Crude Drugs, etc.

AGAR AGAR is easier, No. 1 Kobé offering at 3s. 7½d. per lb. and at 3s. 5d. c.i.f. to arrive; No. 2 on spot 3s. 5d., and 3s. 3d. c.i.f. Yokohama is 3s. 5d. for No. 1 and 3s. 1½d. c.i.f.

ANTIMONY is steady, but business has been slow. Chinese regulus on the spot is £42 10s. ex warehouse, and orders for shipment can be arranged at around £27 10s. English high-grade refined is at £59 10s. to £60, but good brands are obtainable at £58 and even less. Chinese crude is still well held, ranging from £35 10s. to £36 on the spot.

ANTS' EGGS are offered at 1s. 6d. per lb. c.i.f. for cleaned and sifted.

BALSAMS.—Good hard bright *Tolu* is quoted at 3s. 5d. to 3s. 6d. per lb. on the spot. Genuine B.P. *Peru* is about 6s. 6d., and B.P. *Copaiba* about 1s. 10d. *Canada* balsam is firm, some asking up to 6s. 6d. per lb.

BELLADONNA ROOT is quoted at 62s. 6d. per cwt. c.i.f. for 0.49 per cent.; new crop, 0.45, is 54s. c.i.f. for November shipment. Belladonna leaves are quoted at 60s. on the spot, and to arrive 49s. c.i.f. is quoted for 0.42 per cent. total alkaloids.

CADMIUM is unaltered but steady, with a moderately good business in Australian metal on the basis of 2s. to 2s. 1d. per lb.

CASCARA SAGRADA showed more activity during April, deliveries for that month being 37 tons, the best for a lengthy period. The spot value of old bark is 65s. per cwt., and new 60s. per cwt.

CARAWAY SEED.—Dutch for prompt shipment is, if anything, rather firmer at 37s. 6d. per cwt. c.i.f.

CHALK (PRECIPITATED).—Extra light (B.P.) is quoted at £13 17s. 6d. per ton on the spot in 5- to 10-ton lots. Smaller quantities at correspondingly higher prices.

CLOVES.—Zanzibar are quiet at from 7½d. to 7¾d. per lb. on the spot, and for April-May shipment sellers quote 7½d.

per lb. c.i.f. delivered weight. The landings during the week ended April 28 were 560, and the deliveries 243, leaving a stock of 13,819 bales, against 13,353 in 1927 and 17,987 in 1926. The landings of Zanzibar during the period January 1 to April 28, 1928, were 8,901 bales, against 12,976 for 1927, and the deliveries 4,611, against 7,226 in 1927.

COD-LIVER OIL still continues quiet, with prices ranging from 163s. to 171s. per barrel c.i.f. for finest 1928 steam-refined non-freezing Lofoten oil. The fishing at Finnmarken so far has been poor, in spite of the fact of an improvement in the weather. The amount of oil purchased this season has been small, and buyers are still hoping for lower prices.

BERGEN, April 30.—The codfishery at Lofoten again showed good results last week, considering the advanced season for this district. The catch is now considered finished, while that at Finnmarken is small, although it has developed lately. The total output of all the Norwegian codfisheries, compared with that of previous years, is as follows:—

To	Catch of cod.	Yield of steam refined c.l.o.	Livers for crude oils
Apr. 21, 1928..	51,600,000	42,409 hectol.	7,891 hectol.
" 23, 1927..	55,600,000	63,020 "	6,015 "
" 24, 1926..	55,800,000	84,396 "	10,437 "
" 25, 1925..	38,900,000	68,742 "	7,693 "
" 26, 1924..	40,100,000	78,956 "	11,305 "

The market is quiet, non-freezing steam-refined quality being officially quoted at 174s. per barrel, c.i.f. London. The codfishery at Lofoten is closed, with the following results:—

	Catch of cod	Yield of steam-refined cod-liver oil
		Hectol
1928	34,000,000	27,932
1927	35,600,000	43,047
1926	27,600,000	45,236
1925	21,900,000	42,625
1924	16,100,000	36,788
1923	17,030,000	35,291
1922	12,900,000	27,682

CONDURANGO BARK is offered at from about 5½d. to 6d. per lb. c.i.f., according to quantity.

CORN PRODUCTS, ETC.—Guaranteed water-white *glucose* (corn syrup) is 23s. per cwt. delivery to end of June, ex store, London. The new Excise duty on solid glucose is now 3s. 8½d. per cwt., against 4s. 8½d., and on liquid glucose 2s. 8d., against 3s. 4½d. per cwt. Dutch *maize starch powder* (cornflour) is 17s. on the spot. American is 17s. 6d. per cwt., ex store, London. Pearl starch is 17s., delivery to end of June, ex store, London. Dutch *maize starch crystals* is 23s. on the spot, and American is 20s. ex store, London, delivery to end of June. Dutch *dextrin* is quoted at 22s. 6d. to 25s. 6d. per cwt. on the spot as to quality. American canary is 21s. 4½d. per cwt. White is 21s. 1½d., ex store, London, delivery to end of June. Dutch *farina* is unchanged at 17s. per cwt. on the spot, and 16s. 3d. per cwt. f.o.b.

DRAGON'S BLOOD.—The "Philocetes" has brought 15 cases from Singapore.

GENTIAN is quoted at from 32s. to 33s. per cwt. c.i.f. to arrive.

GINGER.—West African is dearer, with spot sales at from 47s. 6d. to 51s. 6d. per cwt., closing sellers at 51s. To arrive, sales include May-June shipment at 49s. c.i.f., sellers asking 49s. 6d. c.i.f. Spot stock of this description is 11,895 packages, against 12,058 packages last year. Washed rough Cochin is 60s., Calicut 65s., Cochin B cut 125s. and C cut 87s. 6d. Small Jamaica is 85s. and bold 100s. to 120s. per cwt.

HEN YOLK is quiet. Dried Chinese on the spot is 1s. 9½d., and May-June shipment 1s. 9½d. per lb. c.i.f. Prime Chinese albumen is 2s. 3½d. to 2s. 4d. spot, and May-June shipment 2s. 2½d. per lb. c.i.f.

HONEY meets with a quiet, steady trade. Jamaica of the new crop is quoted at 48s. 6d. per cwt. for good pale set, at 47s. 6d. for good liquid amber and at 32s. 6d. for very dark liquid.

IPECACUANHA is slow of sale, with Matto Grosso offering at 14s., Minas at 13s. 6d., and Cartagena at 13s. per lb.

JUNIPER BERRIES.—The spot value is about 18s. per cwt.; 127 bags have arrived from Leghorn.

LIQUORICE ROOT.—Russian is quoted at £32 per ton c.i.f. for single peeled, and natural at from £16 to £18 10s. c.i.f.

MAGNESIUM.—Home makers are firm at 4s. per lb. for small ingots and sticks and powder from about 5s. 3d. to 6s. 3d. per lb.

MARSHMALLOW.—Small cut decorticated is quoted at from 70s. to 100s. per cwt. as to quality.

MENTHOL is nominal at 15s. 6d. per lb. for Kobayashi and/or Suzuki on the spot, with possible sellers at 15s. 3d.

MERCURY.—Market conditions have been quieter, with buying chiefly confined to small lots, but there is no indication of any pressing offers and the undertone seems quite firm at from about £22 5s. to £22 10s. per bottle, less the

usual discount. F.o.b. terms from either Spain or Italy are firmly held. A fair amount of business is reported to have been arranged for the Far East at full rates, and the New York market, although not very active, is reported firm at fully \$124½, duty paid. While there is no change in the immediate outlook, there is but little confidence in the maintenance of present high prices, and the possibility of something happening sooner or later to alter the aspect of the market has to be kept in view. An arrival of 37,500 lb. has taken place from Italy.

OPIMUM valued at £15,120 has been imported in the name of the High Commissioner for India.

ORRIS is dearer, fair Florentine sorts offering at from 42s. 6d. to 45s. per cwt., c.i.f. terms. The spot price of Florentine is about 47s. 6d., with small supplies.

PEPPER is firmer at 1s. 6½d. per lb. for fair black Singapore on the spot; March-May and April-June shipment is quoted buyers at 1s. 6d. c.i.f., Lampong is 1s. 6½d. spot; March-May and April-June shipment has been sold at 1s. 5½d. to 1s. 6d. c.i.f., May-July at 1s. 5½d. to 1s. 5½d. c.i.f., August-October at 1s. 4½d. to 1s. 4½d. c.i.f., Tellicherry is 1s. 7d. spot, and May-June shipment 174s. c.i.f.; Alleppy is 1s. 6½d. spot. White Muntok is dearer at 2s. 5½d. to 2s. 4d.; March-May and April-June shipment has been sold at 2s. 5½d. to 2s. 5½d.; August-October 2s. 1½d. to 2s. 2½d., c.i.f.

QUILLAIA has a rising tendency at from £48 to £49 10s. per ton c.i.f. as to position.

RUBBER is quite firm, and spot is practically ½d. per lb. better on the week. The rise is mainly due to the report of very small shipments from the East for the month of April, combined with the fact that there continues to be good trade buying. It would appear that the assumption made in our last week's report that a fairly heavy "bear" position exists amongst some of the largest dealers has proved correct, inasmuch that the market, which in the ordinary course of events would have weakened through May liquidations, has shown renewed strength. Furthermore, the heavy deliveries over the past few weeks has considerably reduced stocks, and last week the highest delivery on record was made from London wharves, viz., 4,669 tons, whilst arrivals totalled 1,210 tons, showing a decrease of 3,459 tons on the week. The London stock now stands at 53,360 tons, against 67,012 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and May, 8½d.; July-September, 8½d.; October-December, 8½d. per lb.

SEEDS.—Although the market is far from being active, there has been a little more interest shown in some articles, with prices as follows:—ANISE: Spanish, 50s.; Levant, 54s.; Russian, 28s. CANARY shows some signs of improvement and a fair business has been done: Mazagan at 14s. 9d. on the spot, and sellers are now quoting 15s., and Saffi sold at 14s. 6d. spot. CUMIN: Maltese is 56s., and Morocco 52s. 6d. CORIANDER remains about the same: Morocco is 47s. spot and Russian 38s. FENUGREEK: Morocco is 16s. to 17s. HEMP: Manchurian is 15s. 9d. to 16s. 9d. per cwt. LINSEED: Mazagan shows a fair business at 20s. per cwt. on the spot, and sellers are now asking 21s. MUSTARD: English is 27s. on the spot.

SENEGA is still very firm at from 5s. 6d. to 5s. 7d. per lb. on the spot. New crop prices are not expected before August.

SHELLAC.—The spot market in the interval has fluctuated between 185s. and 187s. 6d. for usual standard TN orange quality, closing at the latter price; fine orange is 210s. to 300s., pure button 230s., and AC cakey 195s. The sales for delivery include May at 181s. to 185s. to 183s.; August at 167s. to 171s. 6d. to 168s. Sales of TN for April-May shipment have been made at 162s. to 166s. c.i.f., and May-June at 159s. to 162s. to 161s. c.i.f.

SQUILL.—The spot stock is now finished. Fair white of the new crop for June-July shipment is quoted at from 25s. to 27s. 6d. per cwt., c.i.f.

STRAMONIUM LEAVES.—Good green Hungarian are offered at from 57s. 6d. to 60s. per cwt. on the spot.

TARAXACUM.—Foreign is higher at from 60s. to 65s. per cwt. There is little or no English until the new crop.

TURMERIC.—Madras finger is easier to arrive: offering at 33s. 6d. per cwt. c.i.f.; spot value is 33s.

WAX, VEGETABLE.—Japanese is nominal at 84s. per cwt. on the spot, and April-May shipment is 79s. c.i.f.

Essential Oils

BUSINESS is a little better, though the demand for some articles is still below the normal. The citrus oils are again dearer, with sales restricted owing to the desire of holders to obtain the higher prices expected. Vetivert is firmer, while coriander, juniper berry, and spearmint are a little easier.

ANISE (STAR).—"Red Ship" is on the easy side for shipment at 1s. 11½d. in drums, 1s. 11½d. in tins, and 2s. 2½d.

in leads, all c.i.f. There is no trade on the spot at a nominal figure of 2s. 5d. per lb.

BERGAMOT is slightly dearer to arrive at 23s. 6d. per lb. c.i.f. and about 24s. per lb. on the spot.

CAJUPUT is unchanged at 2s. 6d. per lb. on the spot.

CANANGA.—Java is steady at about 11s. 6d. per lb. on the spot.

CEDARLEAF.—Genuine is very scarce on the spot at 5s. 6d. per lb. To arrive 5s. to 5s. 3d. per lb. c.i.f. is quoted.

CEDARWOOD is unchanged at 1s. 1d. per lb. c.i.f., and 1s. 1½d. to 1s. 2d. on the spot in drums. In cases 1s. 4d. per lb. is quoted on the spot.

CITRONELLA.—Java is quoted at 1s. 8d. per lb. c.i.f. and 1s. 8½d. per lb. on the spot. Ceylon stands at 1s. 7d. on the spot and 1s. 6½d. per lb. c.i.f.

CLOVE.—English distilled is steady at 4s. 6d. per lb.

CORIANDER.—Hungarian is a little easier at 49s. per lb. for prompt shipment. The new crop is offered at 41s. 6d. to 42s. per lb. c.i.f.

GERANIUM.—Bourbon is quoted at 16s. 1d. c.i.f. and 16s. 6d. per lb. on the spot. It is reported that a good deal of buying is going on. Algerian is firm at 13s. 6d. on the spot and 12s. per lb. c.i.f.

GINGER is quoted at 24s. per lb. on the spot.

JUNIPER BERRY.—B.P. is easier at 5s. 9d. to 6s. per lb. on the spot. Genuine Hungarian is quoted at 8s. 3d. per lb. for prime quality.

LEMON has advanced further this week and is now quoted at 10s. and upwards on the spot. Forward quotations vary considerably and lie between 9s. 10d. and 10s. 6d. per lb. c.i.f.

LIME.—West Indian distilled is in better demand at the same price, 26s. per lb. on the spot.

MANDARIN is very firm at 28s. to 30s. per lb. c.i.f., but little spot business is being done.

ORANGE continues to be the outstanding article on the market, and holders are still loath to sell. For shipment of the Sicilian sweet 20s. to 20s. 6d. c.i.f. as a nominal figure is given, and the bitter is about 1s. per lb. cheaper. Spot prices show large variations, but it is said that business has been done at 17s. 6d. per lb. in one case. Jamaican oil has advanced by about 4s. per lb. during the week and are now quoted at 17s. 6d. per lb. for sweet and 16s. 6d. for bitter, on the spot.

PATCHOULI is steady and quoted at 27s. per lb. on the spot.

PEPPERMINT is dull and in little demand. American natural tin oil is unchanged at 13s. 3d. to 14s. per lb. c.i.f. and 14s. to 14s. 3d. on the spot, according to brand. Japanese dementholised is quoted at 6s. to 6s. 1d. per lb. on the spot for Kobayashi and/or Suzuki.

PETITGRAIN is firm and steady at 7s. to 7s. 3d. per lb. on the spot.

ROSEWOOD (BOIS DE ROSE).—Cayenne is steady at 8s. 6d. per lb. on the spot, although expected to go higher.

SASSAFRAS is in fairly good demand. Natural American is steady at 3s. 9d. per lb. c.i.f., and 4s. 3d. to 4s. 6d. on the spot.

SPEARMINT is easier, though still a little scarce, at 19s. per lb. on the spot and 18s. c.i.f.

WORMSEED (CHENOPODIUM) is steady at 13s. 6d. c.i.f. and 14s. per lb. on the spot.

VETIVERT.—Bourbon is a little firmer at 21s. per lb. on the spot in tins. Original bottles are quoted at 23s. per lb.

The following arrivals have taken place from the countries indicated during the period April 25 to May 1 (inclusive):—Bay (B.W.I.) 23 cs., (U.S.) 16 cs.; bergamot (It.), 23 cs.; cananga (Jv.) 1 dm., (Holl.) 4 dm.; cassia (Fr.), 1 cs.; citronella (Jv.) 8 cs., (Cey.) 10 cs., (Fr.) 1 dm.; eucalyptus (Aust.), 50 cs.; iris (Fr.), 4 cs.; lavender (Fr.), 15 dm.; lemon (It.), 51 cs.; lime (B.W.I.) 9 cs., (U.S.) 4 cs.; 2 dm.; orange (U.S.) 10 cs., (Br. Ind.) 5 cs.; patchouli (Sev.), 11 cs.; peppermint (U.S.), 4 dm.; 10 cs.; rosewood (Fr.), 3 cs.; sandalwood (Aust.), 24 cs.; vetivert (Fr.), 4 dm.; wormseed (U.S.), 2 cs.; undescrbed (Fr.) 6 cs., (It.) 10 cs., (Holl.) 1 pkg.

Pharmaceutical Chemicals, etc.

QUIET markets are reported for the past week, but the general tone continues steady. There is no change of importance to record. Saccharin has been reduced by 8s. per lb. Soda tart. and pulv. seidlitz are 5s. per cwt. dearer.

ACETANILIDE continues a quiet market: B.P. crystals and powder, 1s. 5½d. to 1s. 6d. per lb.

ASPIRIN is quite steady, with a good business passing. Good brands are quoted at 2s. 5d. to 2s. 7d. per lb., according to quantity. Small isolated parcels only, are available at anything lower.

BENZOIC ACID (B.P.) continues in good call, with prices steady: quantities at 2s. 0½d. to 2s. 1d. per lb., ex works. small spot parcels, 2s. 2d. per lb.

BROMIDES continue about level, with no great amount of business moving: dealers quote ammonium, 1s. 11½d.; potas-

sum, B.P. crystals, 1s. 7½d.; granular, 1s. 7d. to 1s. 7¼d.; sodium, B.P., 1s. 10½d. per lb. for quantities, in casks. British makers' list price: ammonium, from 2s.; potassium, 1s. 8½d. to 1s. 9½d.; sodium, 1s. 11d. to 2s. per lb., in cwt. lots.

CALCIUM LACTATE is moving well on a steady market: quantities from 1s. 1¼d. to 1s. 2d. per lb.

CHLORAL HYDRATE.—Duty-paid crystals seem steady at 3s. 1d. to 3s. 2d. per lb. for quantities; small lots, 3s. 3d.

CITRIC ACID (B.P. crystals).—Reports show that business has been very limited, while supplies on spot are fairly free. Ordinary lots of foreign of a few cwt. are at about 1s. 11d. per lb., less 5 per cent., while a ton or more would be slightly under this figure. Shipment conditions show no further change.

CREOSOTE (B.P.) is offered at 1s. 8½d. to 1s. 9d. per lb.; market quiet.

CREOSOTE CARBONATE continues to be offered at about 5s. 10d. to 6s. per lb.; business small.

GUAIACOL CARBONATE remains quiet, dealers quoting spot at about 4s. 8d. to 4s. 9d. per lb.

HEXAMINE.—A very fair business continues, but competition is keen: small crystals from 2s. 1d.; powder, about 2s. 3d.; free-running crystals, 2s. 2d. to 2s. 3d. per lb.

HYDROQUINONE is meeting with fair business on a steady market; half-ton lots, 3s. 8d.; 14-lb. parcels, 4s. 9d. per lb.

LACTIC ACID (B.P.).—The spot price continues to be quoted at about 1s. 11d. to 2s. per lb.; forward may be cheaper than this.

METHYL SALICYLATE (B.P.) remains slow, with offers of quantities down to 1s. 4½d. to 1s. 5d. per lb.; small parcels, 1s. 6d.

METHYL SULPHONAL remains dull, with dealers offering spot from 9s. to 9s. 4d. per lb.

PARALDEHYDE is steady but not active: quantities in carboys, 1s. 1d. to 1s. 2d. per lb.; small lots, in bottles, 1s. 3d. per lb.

PHENACETIN is steady, with fair business passing: dealers quote 2s. 5d. to 2s. 7d. per lb., as to quantity.

PHENAZONE is holding up well at 3s. 11d. to 4s. per lb.; some offers may be slightly less for second-hand parcels.

POTASSIUM PERMANGANATE.—B.P. crystals continue steady but rather quiet as quoted at 5d. to 5½d. per lb., in drums.

SACCHARIN.—Owing to the alteration in duty on sugar the prices of British-made saccharin have been reduced by 8s. per lb. To-day's price for 550 insoluble is 47s. per lb. net, duty paid. The new excise duty on saccharin is 1s. 10½d. per oz., against 2s. 4½d. per oz.

SALICYLIC ACID (B.P.) seems to be in little demand and orders are keenly competed for: cwt. lots, from 1s. 3d. per lb.; as low as 1s. 2d. is quoted for substantial business.

SALOL is unchanged at controlled prices: cwt. lots, 2s. 4½d.; half-cwt., 2s. 5d.; small parcels, 2s. 6d. per lb.

SODA TARTARATE is 5s. per cwt. higher at 97s. 6d. per cwt. in five-cwt. casks. *Pulv. scidlitz* is also higher at 77s. 6d., in five-cwt. lots, in one delivery. Crystals, 5s. per cwt. extra.

SODIUM BENZOATE (B.P.) continues in fair demand, with foreign powder at about 1s. 7d. per lb. for quantities to arrive; spot, 1s. 7½d. to 1s. 7¾d. per lb.

SODIUM DIETHYLBARBITURATE remains quiet at about 7s. 10d. per lb.

SODIUM SALICYLATE (B.P.) has met with some business of limited size, with prices about unchanged: crystals, from 1s. 8d.; powder, from 1s. 6½d. per lb., for quantities in casks.

SULPHONAL is unchanged and a dull market at 6s. 6d. per lb.

TANNIC ACID.—B.P. *leviss* continues steady, with fair business moving: quantities from 2s. 10d. per lb.; small parcels, 3s. per lb.

TARTARIC ACID (B.P. crystals).—Business continues disappointing for the time of year, but prices are steadily maintained at 1s. 4½d. to 1s. 4¾d. per lb., less 5 per cent. spot for foreign.

TERPIN HYDRATE is quoted by dealers from 1s. 5d. to 1s. 6d. per lb.; market dull.

THYMOL shows no change, with synthetic offering at about 9s. 6d. to 9s. 9d. per lb.

VANILLIN is moving in limited quantities at keen prices: 100 per cent. from cloves from 15s. to 15s. 6d. per lb.

Industrial Chemicals, etc.

London, May 2.

SOME weakness in arsenic is noted, otherwise the market shows little change. Business has been dragging and has been small in size in most instances.

ACETIC ACID continues steady with a moderate business: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE is a bright feature, with prices firm: B.G.S., in drums, £63 to £67 per ton, ex store.

ALUM has met with a limited demand, but prices are about steady: spot, lump, £8 5s. to £8 7s. 6d. per ton, in casks, ex store; slightly less forward in quantities.

AMMONIA (ANHYDROUS) is moving in fair volume, with competition still spoiling the market: spot, 99.95 per cent., 9d. to 11d. per lb., in loaned cylinders, carriage paid; slightly less for contracts.

AMMONIUM CHLORIDE has been dull: dealers' prices are steady at £21 10s. per ton for grey galvanising, in casks, ex store; slightly cheaper for contracts.

ARSENIC.—There has been some falling off in business and some sellers appear to be willing to cut the market a little to clear: Cornish white powdered is now offered at about £17 per ton, for mines.

BARIUM CHLORIDE has been in a little more call, and prices are about steady with spot 98 to 100 per cent. prime white crystals at £7 12s. 6d. per ton, in casks, ex store; slightly cheaper forward in quantities.

BLEACHING POWDER (35 to 37 per cent. available chlorine) is a competitive market, with good-sized contracts at £6 12s. 6d. per ton; ordinary quantities, £6 15s. to £7.

COPPER SULPHATE.—There is a fairly regular business passing on the basis of £25 10s. to £26 10s. f.o.b. for casks, less 5 per cent. Terms for home use range upward of £27, delivered.

CREAM OF TARTAR has been in fair demand and the market is steady at 97s. 6d. to 100s. per owt., less 2½ per cent. for foreign powder, as to quantity.

FORMALDEHYDE continues to be quoted by dealers at about £37 per ton for 40 per cent. by volume, in casks, ex store; slightly cheaper for contracts.

FORMIC ACID is well maintained on a bright market: 85 per cent. in carboys, £46 5s. to £46 12s. 6d. per ton.

ISOPROPYL ALCOHOL has met with a steady business, with dealers' and makers' prices at from about 10s. 9d. to 11s. 3d. per gallon, in drums.

LEAD PRODUCTS.—Lead acetate continues quiet, with the market steady: brown, £40; white, £42 per ton, in casks, ex store; red lead, imported, £30 per ton. c.i.f. London; white lead, imported and home makes, dry, £36 to £42; ground in oil, £44 to £50 per ton, carriage paid in U.K. Convention prices are unchanged.

OXALIC ACID is steady, with business moving well: dealers quote quantities from £29 17s. 6d. to £30 per ton, ex wharf.

POTASSIUM CARBONATE remains quiet but steady: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly cheaper for contracts.

POTASSIUM CHLORATE has been more active, and prices are steady from 2½d. per lb. for quantities to come forward; spot, from 3½d. per lb.

POTASSIUM PERMANGANATE is slow of sale, with dealers offering quantities of commercial quality in 2-cwt. drums from 4½d. to 5d. per lb., ex store.

POTASSIUM PRUSSATE continues to be offered in quantities at about 6½d. per lb., in casks, ex store; small parcels, from 7d.

POTASH CAUSTIC.—Convention prices are unchanged: spot, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases.

SALTCAKE remains slow: home trade, in bulk, £2 15s. to £2 17s. 6d. per ton, delivered.

SODIUM ACETATE continues firm at about £21 per ton, in casks, ex store.

SODIUM CHLORATE is steady, but still quiet: quantities to come forward at 2½d. to 2¾d. per lb. spot.

SODIUM NITRATE is slow of sale: 95 per cent., about £11 2s. 6d.; refined, 96 per cent., about £11 7s. 6d. per ton, f.o.r. docks, London.

SODIUM PRUSSATE is quiet: dealers quote quantities at 4½d. per lb., in casks; small parcels, 5d. per lb.

SODIUM SULPHIDE is offered by dealers for arrival at £9 10s. for 60 to 62 per cent. solid and at £10 10s. per ton for broken.

SULPHUR.—A fair business was reported by exporters, and selling rates are well held. American crude is £5 17s. 6d., and Sicilian flowers £13 7s. 6d., refined ground £12, and roll £10 15s., all c.i.f. to arrive.

COAL TAR PRODUCTS, ETC.—Little or no change is reported in this section. Business remains generally quiet throughout. ANILINE OIL is unchanged at 8d. per lb., packages extra, carriage paid, for large quantities. ANILINE SALT continues steady for large quantities at 8d. per lb., packages extra, carriage paid. BETANAPHTHOL is a good market; quantities from 10d. per lb., carriage paid. CARBOLIC ACID CRYSTALS.—There is brisk inquiry from abroad and supplies are scarce. The price for home trade still remains on the basis of 7d. to 7½d. per lb. for 39° to 40° C. ice crystals. The market is quite firm. CREOSOTE OIL remains dull and unchanged: ex works, 7¾d.; f.o.b., 8¾d. per gallon, in bulk quantities. CRESYLIC ACID.—The firm position which has long

been in evidence is unchanged. Ordinary pale cresylic acid for commercial purposes is still available in fair quantities at 2s. 6d. to 2s. 8d. per gallon, but refined qualities are exceedingly scarce. NAPHTHALENE is dull and unsteady; flakes and balls, about £16 15s. per ton, in cases, ex wharf. METHYL ALCOHOL continues in good demand at about £45 per ton, in drums, ex store; less for quantities to come forward. PYRIDINE is slow and nominal at about 5s. 6d. to 6s. per gallon f.o.b. TOLUOL continues steady; business fair; commercial 90's, 1s. 6d. to 1s. 7d.; pure, 1s. 9d. to 1s. 10d. per gallon, at works. XYLOL is dull; pure, 1s. 10d.; commercial, 1s. 6d. per gallon, at works. PITCH.—The season has now concluded with the market quotation nominal at about 60s. per ton f.o.b. East Coast.

Fixed Oils, etc.

RATHER quiet markets continue. Linseed oil is steady on an improved market. Turpentine is dull. Palm oils are bright on a steady market, and cotton oils are easier. ACID OILS meet with a fair demand: coconut and/or palm kernel, 38s.; groundnut, 32s.; soya, 28s. spot. CASTOR remains quiet with prices unchanged: pharmaceutical, 50s.; first pressings, 45s.; second pressings, 42s. per cwt., in barrels, ex mills, in not less than one-ton lots. COCONUT.—Business is quiet and prices unchanged: deodorised, spot, 48s.; Ceylon, 42s. 6d. c.i.f.; Cochín, 52s. 6d. c.i.f., spot. COTTON is quiet and easier: deodorised, 44s.; common edible, 43s. 6d.; soap-making, 38s. 6d.; crude, 36s. 6d. spot. GROUNDNUT remains dull and unsteady: deodorised, spot, 47s. 6d.; crude Oriental, 41s. 6d. c.i.f. PALM KERNEL has been dull all the week; deodorised, about 44s. 9d.; crude, 40s. spot. PALM.—Prices show a slight fluctuation on the week; business has been fairly good and the market closes steady: Lagos, 34s. 6d.; softs, 34s. 4½d.; mediums, 34s. 6d.; hards, 35s.; bleached, 37s. 3d. spot. RAPE is quiet: refined, 45s.; crude, 43s. spot. SOYA remains quiet with quoted values about unchanged: deodorised, 40s.; crude, 36s. spot. LINSEED (raw, naked).—Prices show a slight improvement for all positions with the market fairly steady but quiet: On spot, 31s. 6d.; May, 30s. 6d.; June, 30s. 9d.; May-August, 30s. 9d.; September-December, 31s. 9d. Boiled oil, spot, 35s. 3d. Hull, on spot, 30s.; May-August, 30s. 6d.; September-December, 31s. 6d. TURPENTINE.—In the latter part of last week official prices on the Baltic were put on a basis including the equivalent of the import tax representing 4s. per cwt., and prices at one time ranged upward of 42s. 3d., according to position, but there has been since an easier feeling, with a notable reaction. The London spot price closes at 41s. 3d.; May-June, 41s. 9d.; July-December, 42s. 6d. The past week's deliveries here were 2,229 barrels, making an aggregate since January 1 of 34,606 barrels, and the stocks were returned at 29,529 barrels, which compares with 30,075 barrels at the same date last year. RESIN.—The market has been affected by firmer American advices, attributed to heavy rains, and sellers from America to this side have been revised upward in most directions. C.i.f. terms are as follows: B to D 17s. 6d. to 18s. 1½d., E/F 18s. 6d. to 19s. 1½d., G 19s. 4½d., H/I 19s. 6d. to 19s. 7½d., K.M. 19s. 10½d., N 21s., W.G. 22s., and W.W. 22s. 6d. Terms ex-wharf command 9d. per cwt. more. WOOD.—Hankow, 7½ barrels, on spot is dull and easier at about 72s. per cwt. spot.

LUBRICATING, MINERAL AND BURNING OILS.—Benzol prices have advanced. Paraffin wax and scale are firm at higher rates. Lubricating oils are steady on spot. BENZOL.—Prices have advanced: crude 65s. 1½d.; standard motor, 1s. 4d.; pure, from 1s. 6d. per gallon, ex works, in tank wagons. FUEL OIL is steady and unchanged: 950 gravity, £3 12s. 6d.; 890 gravity, £4 7s. 6d. per ton, ex tank; slightly cheaper forward. PETROLEUM is lower following on the removal of the 4d. per gallon duty. American standard white is 10½d.; water-white 11½d. per gallon, ex-wharf, London, barrels included. PARAFFIN WAX AND SCALE.—Wax has advanced, with prices now at 2½d. to 4½d. per lb., according to melting point, in bags; scale is firm as quoted for shipment at £20 per ton, c.i.f. U.K. port. WHITE OILS continue unchanged: special No. 1, £24 2s. 6d.; No. 1, £23 5s.; No. 3 half-white, £20 10s.; No. 4 half-white, £19 10s. per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS.—Business is still very slow and the market is weak: 90 to 160, 9½d. to 9½d.; heavy 90 to 190, 9½d. to 9½d. per gallon, naked at works. PETROLEUM JELLIES are steady: white to snow-white, £40 5s. to £52; amber and yellow, £19 to £24; dark stiff green, £12 per ton, barrels free, ex wharf. LUBRICATING OILS.—There is no change to report, with the market holding steady on spot: pales, £9 10s. to £22; reds, £11 to £21 10s.; dark cylinders, £11 15s. to £23; filtered cylinders, £13 to £27 5s. per ton, less 2½ per cent., ex wharf, London; slightly less for tank lots. SOLUBLE OIL AND CUTTING COMPOUNDS, £20 to £23 per ton, net. No. 1 RUSSIAN OIL is quoted on spot from £14 per ton, less 2½ per cent., barrels free, ex wharf.

Export Duties on Italian Tartar Products

AN Italian decree dated April 5, published in the "Gazzetta Ufficiale," April 13, and in force from April 19, increases the Italian export duty on crude tartar, argols and wine lees containing up to 35 per cent. potassium bitartrate from 5 to 20 lire per 100 kilos., and on that containing over 35 per cent. of potassium bitartrate from 5 or 6 to 24 lire per 100 kilos. From the same date an export duty of 24 lire per 100 kilos. is established for caleium tartrate.

Java Cinchona and Coca Exports

THE following table shows the exports of cinchona and coca leaves from Java during the period January to December 1927, compared with those of the corresponding period of 1926 (amounts in kilos):—

	Cinchona		Coca	
	Jan.-Dec. 1926	Jan.-Dec. 1927	Jan.-Dec. 1926	Jan.-Dec. 1927
	kilos	kilos	kilos	kilos
Great Britain	753,639	490,372	—	—
British India	125,733	143,091	—	—
China	—	7,135	—	—
Egypt	—	—	11,426	—
France	16,537	—	18,819	—
Germany	—	—	28,783	78,869
Italy	—	8,265	—	—
Japan	649,872	447,510	206,558	183,055
Netherlands	4,493,539	4,800,622	791,362	461,548
Port Said	—	—	8,837	—
Total	6,039,320	5,896,995	1,065,785	723,472

Exports of quinine from Java during 1927 were 74,749 kilos, against 130,939 kilos during the same period of 1926.

Nigerian Palm Oil

IS a report presented to the Empire Parliamentary Association by the delegation which recently visited Nigeria extended reference is made to palm oil, which is the main economic problem of that country. The products of the palm, oil and kernels, were valued at over £8,000,000 in 1926, and made up nearly half of Nigeria's exports for the year. There is, in addition, a rapidly growing local consumption of the oil as a food. Almost the whole of this produce was collected by the natives from their forest or semi-cultivated palms, and treated by them for oil and kernels. But Nigeria, and even the West Coast, has no longer an unchallenged monopoly in this production. The menace of outside competition began to show itself in 1925, when Sumatra exported 9,000 tons of oil and kernels, and development there is proceeding so rapidly that about 100,000 short tons will be produced there in 1936. An important factor is that while the Nigerian product is extracted by simple native methods, in Sumatra the oil is extracted by modern machinery, yielding a far higher proportion of good oil than is obtained in Nigeria. At Victoria, in the mandated area, German owners of the Cameroon plantations have established a system of oil-extraction by a process involving the use of benzine as a solvent. It may well be (says the report) that this process is the most significant development in the palm oil situation to-day.

Jamaica Logwood

THE "Times Trade Supplement," April 7, 1928, contains some interesting facts on the condition of the logwood dye industry. The consumption has suffered from the competition of synthetic dyes, and the present position has caused a serious crisis in the production in Jamaica. British imports of extract fell alarmingly in the three years as the following figures show:—1924, 55,811 ewt. (value £185,904); 1925, 34,596 ewt. (£103,897); 1926, 23,972 ewt. (£76,360). A movement is on foot in the colony to obtain the co-operation of the Government with the producers and manufacturers of extract to improve the situation. Jamaica exported in 1926 30,239 tons of raw logwood and roots made up as follows:—To France, 17,148 tons; U.S.A., 11,422; Germany, 1,605; and U.K., 64. There were also exports of 7,197 packages (3 cwt. net each) of extract made up as follows:—To U.K., 4,617 packages; U.S.A., 353; Belgium, 1,820; Italy, 402; Spain, 25. The trade is virtually controlled by the United States. Logwood extract provides a fast black dye which has many special advantages, more clearly recognised in the U.S.A. than in this country, and owing partly to this and partly to internecine warfare among the extracting firms, the price for hematine crystals has sunk in recent years from £105 per ton, which left a reasonable profit, to £86 per ton, which means a certain loss.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Insurance Medical and Pharmaceutical Services

SIR,—I felt particularly interested in two items in your issue of April 28:—(1) A report of a speech by Mr. Mallison on N.H.I. terms, in which it is stated: "If they [the chemists] refused the Government would give the work to doctors' dispensaries; (2) a letter by "Branch Member," in which he complains that business matters are taboo at meetings of the Society's branches. I presume from the important position which he holds as secretary of the R.P.U. that Mr. Mallison has definite proof for his statements, since it involves two serious imputations: first, that the Government cares so little about the lives of the insured that it would subject them to the proved risks of an obviously inadequate dispensing service; secondly, that the General Medical Council would regard as "professional conduct" blacklegging of the very worst type. In Scotland we do not hear so much about the "doctor's dispensary"—I had nearly written "bogy," but shall write "competition." The view in some quarters here is that owing to internal competition it is out of the question to expect adequate remuneration; in other quarters the opinion seems to be held that rather than give us just and reasonable remuneration the Government would institute State dispensaries. So far as internal competition is concerned all professions are at present badly overcrowded, but the Government does not seek to take advantage of that position by breaking fees or salaries in either the medical or teaching professions. There is little doubt that when the Insurance Act was introduced Mr. Lloyd George could have got sufficient medical men at 4s. 6d. each to work the Act. Obviously other considerations than a supply of cheap labour led to the increase to 7s., and it does not seem unreasonable to suppose that the necessity to keep up the prestige of the medical qualification had something to do with it. That the State remuneration of a profession must inevitably react on its private remuneration is indicated by the fact that we have recently been informed that pharmacists may be called on to justify the discrepancy between N.H.I. prices and those charged in what are recognised as first-class pharmacies. I have no doubt that the leaders of the medical profession foresaw such possibilities when better Insurance remuneration was insisted on. It is not an unknown thing to find a University graduate in the ranks of sandwich-board men. The fact that he has a degree does not bring him an extra twopenny per hour for his labour, neither does it elevate the profession of carrying sandwich-boards. Rather it is regarded as a degradation of the University degree. And yet in the North we are told from within our own ranks that we should be thankful if we retain our present fees. With regard to State pharmacies, any arguments in their favour could be applied with much greater effect to State medical service; and yet in no responsible quarter do we hear of any suggestion to reduce doctors' fees by threat of State service. With regard to "Branch Member's" complaint, I have considerable sympathy with him. Whilst there may be advantages in having a certain section of our organisation dealing more directly with trade matters and another with professional, it is futile to seek to separate trade and professional matters into watertight compartments. As I have tried to indicate, our professional status depends essentially on the value we put on our services. The Pharmaceutical Society took the credit of getting Insurance dispensing for pharmacists. It seems anomalous to take up the position now that they have nothing to do with the rate of remuneration. The policy of the Society has always been to turn out dispensers so trained and qualified that risk of error is reduced to a minimum and the safety of the public ensured. Also it has encouraged in every way the scientific

advancement of pharmacy which, it is safe to claim, must go hand and hand with the scientific advancement of therapeutics. Whilst the rate of remuneration we enjoy in Scotland may be adequate for such education and training as is necessary to become an army dispenser, or to take the Apothecaries' certificate, it is certainly quite inadequate if the profession of pharmacy is to be maintained at its present level, and it will inevitably result in retrogression instead of essential progress. The introduction of curricula, of University degrees, of pharmacological laboratories will not benefit pharmacy in the end if professional remuneration is to be fixed at what an ordinary tradesman can command.

Yours, etc.,

MARTIN MELDRUM.

AYR.

The Council Election

SIR,—Having read the remarks of "Xrayser III" in your issue of April 28 upon the Council election, I am constrained to point out that the latter part of the same remarks is the very reason of the new candidates for the Council. It is that the position is identical with that of a year ago, i.e., "that the members of the Council had better remain in because of the Poison Laws Inquiry," and we still wait. We were promised (metaphorically) "jam" a year ago, and now it is "jam" in the future, but what we want is "jam" now. Your correspondent, under "The Council Election," in his letter also shows a wrong conception. The candidates are not inspired to capture seats, but, being legitimate members of the Pharmaceutical Society, claim the privilege common to each member to sit upon the Council. They happen to have, beyond their earnest desire to serve chemists, that of the recognition of optics. Is your correspondent aware that optical knowledge is included in the Preliminary Scientific examination syllabus of the Pharmaceutical Society? And it is for those chemists (and they are a goodly number) who have made this integral part of our training attain some practical end by carrying their knowledge still further by qualification that some recognition and voice in matters is desired. The ultimate result will be an elevation of our professional status, and the lot of the retail chemist would benefit.—Yours, etc.,

SURBITON.

ERNEST L. SLADE.

SIR,—Chemists to-day, and I mean retail chemists, not the manufacturing laboratory boy, are making a serious bid for stronger legislation, so that they may be protected from unfair competition, especially that of the unknown manufacturing concern that makes a point of supplying nondescript shops with goods at a price reputable firms cannot compete with. Post-war legislation without exception has been unfavourable. For years we have seen the spectacle of honest citizens hauled before a court for a decimal error in dispensing. In answer to a question, Mr. H. Linstead informed me some time ago that "the Food and Drugs Act had been interpreted in this manner." Mark this, the Act does not specifically give this power, but has been interpreted in this manner. The principle is so great, the matter is so serious, personally I would have fought it even to the House of Lords. "Beaten at the post" about describes the Council's attitude. For goodness' sake let us have a proper poll this year and secure a live Council.—Yours faithfully,

J. F. MCNEAL.

EASTBOURNE.

Photographic Chemists and the P.D.A.

SIR,—May I appeal to all photographic chemists to join immediately the Photographic Dealers' Association? So much of our legitimate business is to-day being done by other trades, and the photographic retail trade is a glaring instance of this. The Photographic Dealers' Association, over 50 per cent. of whose members are chemists, has during the past year succeeded in obtaining great concessions from the manufacturers, who have agreed to open new accounts only with dealers who come under one of the following categories:—(1) Photographic dealers, (2) professional photographers, (3) chemists, (4) qualified opticians, (5) large stores with a separate photographic department and staff; but, only on condition that we will show our willingness to help and our desire

for this limitation by organising through joining the P.D.A. How can we expect manufacturers to try and help us stop the rot if dealers themselves will not raise a hand to help? For the first time in the history of the trade the manufacturers are prepared to sacrifice their prerogative of supplying whom they like and to open no new accounts outside legitimate dealing businesses. Let us join now! Make it possible for the P.D.A. to save what is left of the trade, and remember that if sufficient support is forthcoming, a council will be formed in which dealers have equal representation with the manufacturers to control new accounts. That council will need our help when questions of new accounts crop up in our area. It is important to note that the P.D.A. cannot control prices for D. & P. This is to be left to the local associations, which are already forming all over the country, and they can deal with this matter if they wish. Any chemist who is sufficiently interested to try and form a local association of the P.D.A. should write to the Secretary, Mr. Andrews, 26 Woburn Place, Russell Square, W.C.2. I shall personally be pleased to answer any questions brother chemists may wish to put.

Yours faithfully,

A. FINNIS ATTWELL, M.P.S.,

Member of the Council of the
Photographic Dealers' Association.

Bournemouth.

"Chemist and Druggist" is requested to read the notice at the head of this section.

Legal Queries

A. W. (1/85).—The statements on the two labels do not render the preparation liable to medicine stamp duty.

J. A. (2/85).—Full particulars regarding the registration of trade-marks are given in THE CHEMIST AND DRUGGIST DIARY, 1928, p. 329.

Philodonna (28/84).—Lead acetate and zinc sulphate are not scheduled poisons; salt of lemon is a poisonous substance according to section 5 of the Poisons and Pharmacy Act, 1908, and must be labelled with its name, the words "poisonous—not to be taken," as well as the name and address of the seller.

A. M. (27/84) has, for the past two and a-half years, employed a charwoman who is now sixty years of age. The woman has not hitherto been insured under the National Insurance scheme; but she now realises that by so doing she can qualify for a pension at the age of sixty-five. An insurance card for the current period has been obtained for her. How can cards for the past two years be obtained? [It appears that both "A. M." and the charwoman are liable to penalties for not having effected the necessary insurance; but it is now too late to pay the contributions in respect of the past period of employment. If the woman remains insured for the next five years she will be eligible for an old age pension at the expiration of that period.]

Subscriber's Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Warning.

An artful plan for obtaining cameras from chemists by false pretences has been reported to us during the past few days. The *modus operandi* is based on local information which has been obtained in advance. In one case a man entered the shop purporting to be the son of a manager to a neighbouring tradesman and to be going away with his father for the week-end. He selected two cameras and asked for them to be sent to his supposed father. On seeing the boy arrive with the cameras, he told him to go up the passage adjoining the shop, where, under pretext of sending the lad back for a receipt stamp, he got possession of the cameras and disappeared. In yet another case the trick consisted in slipping a camera out of its case while another customer was being served and disappearing; ostensibly to buy cigarettes while the camera (no longer there) was being wrapped up.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

B. Q. P. (27/2).—REMEDY FOR HAIR WORM IN SHEEP.—This is a dark brown fluid containing approximately sodium arsenite, 7 per cent. and nicotine 2 per cent. It was tested for some other suitable active agents, but with negative result. In particular no phenols were found.

D. W. (17/3).—INSOMNIA MIXTURE.—This preparation contains about 25 per cent. potassium bromide and 25 per cent. chloral hydrate, and a vegetable tincture or the like.

B. P. (26/3).—PHOTOGRAPHIC DEVELOPER.—The following is a formula using exsiccated chemicals and suitable for packing in powder form:—

M.Q. Developing Powders

(A)		(B)	
Metal	...	100 gr.	Sodium carbonate,
Quinol	...	50 gr.	anhydrous
Sodium sulphite,	...		60 gr.
anhydrous	...	2 oz.	Potassium bromide

Each powder is dissolved in 20 oz. of water to make a developer, but these quantities can be reduced to make up the selling size, which generally is from 4 to 8 oz. of developer.

H. H. (30/3).—CHILDREN'S COUGH MIXTURE.—This is a thin syrup of pale yellow colour. Specific gravity 1.16 It had fermented somewhat and contained reducing sugars. Probably it had been prepared to a formula such as:—Vinegar of squill 3j.; simple syrup, 3j.; water q.s. ad 3j.

P. W. H. (3/4).—COLD INHALANT.—This is a clear, yellow, spiritous liquid, containing one third of its volume of a volatile oil, which appears to be chiefly eucalyptus, with some lavender.

F. W. W. (20/4).—BOOK ON PHOTOGRAPHIC CHEMISTRY.—The book which seems best suited to your requirements is "Photographic Chemicals and Chemistry," by Southworth & Bentley (Sir Isaac Pitman & Sons, Ltd., 3s. 6d.).

E. M. (19/84).—LEATHER DYE.—It appears to be a solution of bitumen (1 part) in coal-tar naphtha (2 parts), with a little nitrobenzene to give it an odour.

J. & H. A. (22/83).—FIREPROOFING SOLUTIONS.—The following is a formula of a solution used for this purpose in respect of wood, ropes, straw, mats and bags:—

Sal ammoniac	...	15 oz.
Boric acid	...	6 oz.
Borax	...	3 oz.
Water	...	5 pints

Immerse the articles for 15-20 minutes in the boiling solution, press and dry. The formula of a solution which is often used for fireproofing theatrical wings is:—

Sodium tungstate	...	16 oz.
Water	...	1½ pint

Dissolve in the cold, and add

Sodium phosphate	...	2 oz. 2 dr.
Water	...	1 pint

or a sufficiency of water to make the solution s.g. 1.14. This solution is applied in the same way, but is considerably more expensive.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," May 15, 1878

At the Royal Academy

We linger with satisfaction before the portrait of a distinguished pharmacist which adorns the walls of the Royal Academy. It is that of Mr. Peter Squire (No. 523), by Cyrus Johnson. As a painting it is most successful, and well represents the features of one to whom we are originally indebted for the admirable examination system at present developed and efficiently carried out in Bloomsbury Square.



[Commenced C. & D., July 5, 1924]

Optical Displays.—Spectacles do not afford such a variety of window display as the chemist's usual lines, but neat and effective windows can be arranged with a little care and should tend to more severely professional lines than the usual chemist's window of to-day. Diplomas, diagrams of the eye and charts form suitable backgrounds; talking cards with assorted wordings can be obtained in series from the optical supply houses; coloured glass globes or blocks live up the display; a model eye, frames and clips, both glazed and unglazed, tinted glasses, motor goggles and lorgnettes help to catch the eye; and a topical note is struck at the present time by a series of exhibits showing the process of manufacture of a shell frame. A moving astigmatism fan always attracts attention, and at night an illuminated eye with a flashing device is arresting.

Orange-flower Water is regarded as a by-product in the distillation of orange flowers for neroli oil. The flowers of the bitter orange, *Citrus bigaradia*, yields true neroli, while those of sweet orange yield neroli Portugal, which is less valuable. Formerly the distillation, which is mainly a French industry, was carried out for the orange-flower water, which is a highly esteemed perfumed water, containing the more soluble portions of the oil which are most characteristic of the odour of the flower. When freshly distilled, orange-flower water is an almost colourless liquid which gradually darkens on keeping, unless stored in a cool, dark place in airtight containers.

Orange oils.—In commerce there are two varieties of ordinary orange oil, almost identical in composition and character, but with somewhat distinct flavour and odours. These are the sweet and bitter orange oils obtained from the peel of *Citrus aurantium* subsp. *sivensis* and *Citrus aurantium* subsp. *amara* respectively. Professor Sadebeck says with regard to the origin of the trees in his "Plant Cultivation in the German Colonies and their Products":—

"The orange tree is probably indigenous to South-Eastern Asia, and thence has spread to the Sunda Islands, further India, Persia, Arabia, Syria, North Africa and Southern Europe. Towards the end of the ninth century of the Christian era, it appeared in Arabia, and since A.D. 1002, in Sicily."

There is also a distillation oil, but this is much inferior to the expressed oil. West Indian oil has been found to be at least as good as Sicilian oil. The chief centres of cultivation in the Mediterranean area are, according to Umney, N. Hyères, Cannes, Grasse, Nice, Mentone, Bordighera, San Remo, Savone and Nervi. Many districts in Algeria are centres of a flourishing orange-growing industry. The sweet orange is cultivated on a large scale in the West Indies and in the Southern States of North America. In Florida it also grows wild in great abundance. There are nearly twenty varieties known of the sweet or Portugal orange, *Citrus aurantium* (Risso). Of the bitter or Seville orange there are a dozen varieties. It is known as *Citrus bigaradia* (Duhamel), *Citrus aurantium*, var. *amara* (Linnaeus) and *Citrus vulgaris* (Risso). Orange trees are pruned in May or June after flowering, the main idea being to keep the centre of the tree clear for the circulation of air, and the removal of dead or decayed wood. The flowers open towards the end of April, and, on distillation, yield the sweet oil known as neroli oil, and also orange-flower water as a by-product. Preference is given to the products of the bitter orange, which has larger and more numerous flowers, and the fruits having a rougher rind covered with oil vessels. A tree between twenty and

thirty years of age yields from 15 to 20 kilos. of flowers a year. A hundred kilos. of flowers yield at least 40 kilos. of orange-flower water and 100 grms. of oil. The maximum fruit yield occurs when the trees are 20 to 25 years old, usually from 600 to 1,000 fruits per year. In Spain and Algiers some trees have produced from 2,000 to 3,000 fruits per annum. The peel is used for marmalade making, and for the production of liqueurs, as well as for the expression of the essential oil. Three different oils are obtained from the orange, namely, the flower oil known as neroli oil, the oil from the leaves and young shoots known as petitgrain oil, and the peel oil known as "orange" oil. Sweet orange oil obtained by expression has the following characters:—Specific gravity, 0.848 to 0.853; optical rotation, +94° to +99°; refractive index, 1.4728 to 1.4745. On evaporation in a water bath, sweet orange oil yields from 1.5 to 4 per cent. of fixed residue. Spanish orange oil yields from 7 to 9 per cent. of fixed residue. West Indian orange oil has occasionally a refractive index as low as 1.4700. The oil consists chiefly of dextro-limonene (90 per cent. or over). Decylic aldehyde is one of the main odorous constituents of the oil. Linalol, *l*-terpinol, *d*-terpinol, nonyl alcohol, methyl anthranilate and traces of caprylic acid esters are also present. Bitter orange oil is very similar in composition, and has the following characters:—Specific gravity, 0.850 to 0.856; optical rotation, +90° to +95°; refractive index, 1.4720 to 1.4748; non-volatile residue, 2.5 to 4.5 per cent. An orange oil prepared by an abnormal method from Manila oranges was examined by Gibbs and Agcaoili, with the following results:—

No.	Oil from 100 peels	Specific gravity	Rotation	Ref. index	Ester number
1	—	0.8416	+58.9°	1.4560	13
2	19.33 gm.	0.8620	+83.4°	1.470	7
3	14.0 gm.	0.8481	+79°	1.468	10

Orange Peel.—The rind or pericarp of the fruit of the bitter orange, *Citrus Aurantium*, var. *Bigaradia*, Hook F. (N.O. *Rutaceæ*). The fruit is generally imported into this country in February and March from Tripoli via Malta. The rind is characterised by its reddish or deep orange colour and its rough glandular surface. When dried, the peel should retain but little of the white spongy portion or mesocarp. The taste is more bitter than that of the ordinary orange. The dried peel occurs in three forms—English, exotic, and so-called Maltese. The English is more carefully dried in long strips, about one-third inch wide, and more or less curled in drying. The exotic is less carefully dried, and yellow-orange-red colour externally, and a dirty white colour on the inner surface. So-called Maltese resembles exotic, but occurs in slender strips, about two lines wide only, and is cut into shorter pieces, with less mesocarp attached to it. The U.S.P. describes the peel as of a brownish-green colour, and usually dried in strips or quarters, thus apparently admitting the badly-dried West Indian peel, which is usually dried in quarters. The P.G. describes the peel as brownish, and directs that it should be prepared by softening it in water for a quarter of an hour, pouring off the water and keeping the peel in a cool place till the next day, when the white spongy part can be cut off and the outer portion dried.

Orchids and their Perfume.—There are, roughly, some 6,000 species of the genus *orchis*, which are, in the main, tropical and sub-tropical plants, bearing delicate and beautiful flowers. To the perfumer the vanilla orchid is the only one of any importance, the fruit forming the vanilla beans of commerce. In Asia, the tubers of several orchids are turned into a farinaceous meal known as salep. According to McDougall, the following orchids produce flowers bearing the typical odour as under:—*Acropera loddigesii*, wallflower; *anagracium fatuosum*, tuberose; *bifrenaria inodora*, lily of the valley; *catasetum scurra*, lemon; *cattleya Eldorado*, rose; *cleistoma ionasum*, violet; *caeliopsis hyacinthisma*, hyacinth; *dendrobium glumaceum*, lilac or heliotrope; *dendrobium nobile*, hay, or honey; *epidendrum vulnerum*, carnation; *maxillaria aromatica*, cinnamon; *odontoglossum citrosium*, rose; *odontoglossum gloriosum*, hawthorn; *orchis sambri-cina*, elder; *zygopetalum mackayi*, hyacinth. Natural

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orchid perfumes are not found in commerce; so-called orchid perfumes are mixtures of artificial and flower products. Amyl salicylate (trèfle) is the artificial substance used as a base for orchid perfumes.

Ordeal Bean.—The only ordeal bean utilised in pharmacy is that of the *Physostigma venenosum* (N.O. *Leguminosae*), known as the calabar bean. It is also called Eséré nut by the natives, who employ it as an ordeal bean, persons who are suspected of crime being compelled to eat them until they vomit or die, the former being a proof of innocence, if they do not vomit they are guilty. The chief use of the calabar bean in pharmacy is for contracting the pupil of the eye. The other well-known ordeal bean is that of Madagascar, but it does not belong to the bean family, but to the *Apocynaceae*, and is known to botanists as *Tanghinia venenifera*, a good representation of it being given in the "Treasury of Botany" (vol. 2, p. 1123). The export of these seeds has been prohibited for some years, and the ordeal bean of Madagascar has become a rarity, even in museum collections. See also Calabar Bean.

Ordering Goods, Liability in.—An order for goods cannot be withdrawn or altered after it has been accepted by the seller, without his permission. The order may be either verbal or in writing; but if the goods ordered are of the value of £10 or more the contract cannot be enforced against the buyer by legal proceedings, unless (a) the buyer accepts part of the goods sold and actually receives them, or (b) the buyer gives something in earnest, i.e., something of value, to bind the contract, or in part payment, or (c) the buyer has given a written order for the goods which he or his agent has signed. Unless the contract fixes the price to be paid for the goods or prescribes the manner in which the price is to be arrived at, the buyer must pay a reasonable price for them. The buyer is bound to accept and pay for goods supplied in accordance with the terms of the order; but, if he has not examined the goods before delivery, he is not deemed to have accepted them until he has had a reasonable opportunity of examining them. If the buyer intends to exercise his right to reject goods upon the ground that they are not in conformity with the contract, he must do so within a reasonable time after delivery. He need not return rejected goods; it is sufficient if he intimates to the seller that he has rejected them. If goods ordered are to be sent to the buyer, they are, as a rule, at the risk of the buyer after delivery to the carrier, and the buyer is bound to pay for them, even if they are lost or damaged in transit. However, a contrary intention may be expressed or implied in the terms of a particular contract. The ability of certain classes of persons to give a binding order for goods is restricted by law. (See Infants, Lunatics and Married Women.)

Oregon Balsam.—This oleoresin is obtained from *Pseudotsuga Douglasii*, Carr. (N.O. *Coniferae*), (*P. taxifolia*, Mahoud). It is used as a substitute for and an adulterant of Canada balsam, when that product is scarce. As long ago as 1872 Oregon balsam was substituted for it ("Proc. Amer. Pharm. Assoc.," 1873, p. 1192; 1874, p. 428). In 1913 Canada balsam was practically unobtainable, and it became necessary to ascertain how far Oregon balsam could be used as a substitute. Authentic specimens of the Oregon balsam from *Pseudotsuga Douglasii* were obtained and examined by J. G. Roberts and M. R. Becker, who found that it differed in its viscosity, being thinner than Canada balsam, and in being completely soluble in alcohol, which Canada balsam is not, but yields a turbid solution. Oregon balsam does not solidify even when mixed with 60 per cent. of moistened magnesium oxide. It is also slower in drying, a drop spread on a glass plate being still sticky at the end of three weeks, whilst that of Canada balsam did not adhere to the finger when touched. It also differs in the acid number, that of Oregon balsam varying from 100.6 to 106.7, whilst that of Canada balsam is 0.87. Oregon balsam is used in the manufacture of porous

plasters, and also in the varnish trade as a substitute for Venice turpentine, and in the ceramic industry. The oleoresin collects in the wood of the tree in pockets, especially in windswept trees. The collectors, probably guided by the one-sided trend of the branches, bore holes into the trunk, one to three gallons being frequently obtained. The cost of Oregon balsam is about one-sixth that of Canada balsam, and probably can replace that product for many purposes, except for microscopical work. The *Pseudotsuga Douglasii* has lately been recommended by Dr. Augustin Henry, Professor of Forestry in Dublin University, as suitable for cultivation in Britain and British Dominions, since it is a rapid grower and forms excellent timber and yields a quantity of the oleoresin.

Origanum Oils.—See Marjoram.

Orizaba Jalap.—See Jalap.

Orpiment is native antimony trisulphide (As_2S_3), which is still used as a pigment in the Orient. King's yellow is an alternative name denoting the value attached to this golden colour in ancient times.

Orris is derived from three species of iris (N.O. *Iridaceae*), viz., *Iris Germanica*, Linn., *I. Florentina*, Linn., and *I. pallida*, Linn. *I. Germanica* is a native of the Centre and South of Europe, the North of India and Morocco. Orris is cultivated in the neighbourhood of Florence and Lucca in the departments of Ain and Var, in France. *Iris Germanica* has dark blue flowers, *I. Florentina* white flowers, and is a native of the South-Western regions of the Black Sea; *Iris pallida* has delicate pale blue flowers, and is a native of Istria, growing in calcareous situations. It resembles *I. Florentina*, but is a taller and stronger plant. The root of this species comes by way of Leghorn. The root of *I. Germanica* is said to furnish the orris exported from Morocco, and apparently also that which occasionally reaches this country from India. The drug, as it comes into commerce, is known as Florentine, Verona, Mogador and East Indian orris root. The root, or rather rhizome, varies much in appearance according to the trouble taken in trimming it. The Florentine is carefully peeled, plump and white. The Verona has a yellowish tint, is less carefully peeled and more or less flattened, and often has a hole at one end by which the pieces have been suspended to dry. Mogador orris is much darker than the Italian, and shows portions of reddish cork and the remains of buds. East Indian orris occurs in small pieces and has but little aroma. For distilling the oil the Verona and Mogador kinds are said to be preferred. The orris used for infants, to assist dentition, usually consists of trimmed pieces of the Verona variety. These are also chewed by adults to perfume the breath. The rhizome usually yields by steam distillation 0.1 per cent. and 0.2 per cent. of a solid fragrant oil which consists of about 85 per cent. of myristic acid, and the remaining 15 per cent. of irone (to which the violet odour of the root is due), methyl ester of myristic acid and an ester of oleic acid. Irone $C_{18}H_{36}O$ is an oily liquid with a pungent odour quite distinct from that of violets, but when dissolved in a large quantity of alcohol and a little ester allowed to evaporate, the violet odour becomes quite perceptible. The rhizome also contains an abundance of starch, a little resin, and a glucoside (iridin), not to be confounded with the iridin obtained from *Iris versicolor*, and also 5 per cent. of ash. The powdered drug may be recognised by the starch grains. These are mostly simple, 25 to 30 mm. long, and 10 to 25 mm. wide, oval or elliptical in outline, with a branching hilum; it contains also large prismatic crystals of calcium oxalate, thick-walled, parenchymatous tissue, but no bast fibre. Florentine orris is usually dug up between the end of August and the middle of October, and peeled while fresh. Drying is commenced in the sun and completed indoors, after which the roots are graded and packed.

MEGGESON'S

In stoppered show
bottles with artistic
labels.

2/- per lb.
14 lb. @ 1/9.



In 2-oz. tins and
cartons as illustration
at 3/6 per doz.

A supply of free cartons
sent with orders for
7 lb. and upwards.

The Perfect Spring Medicine

TWO STANDARD PREPARATIONS

on the P.A.T.A.

**A credit to
any Pharmacy**



4-oz. tins .. 5/6 per doz.
P.A.T.A. 9d.

8-oz. tins .. 9/6 per doz.
P.A.T.A. 1/4.



With Attractive New Cartons.

11/6 per doz.

11/3 in 6 doz. quantities.

11/- in 12 doz. quantities.

Minimum Retail Price 1/9

For the best value in EFFERVESCENT PREPARATIONS in tins, bottles and bulk—

130 Years'
Reputation
for Quality.
"Experience
does count."

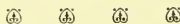
MEGGESON & CO. LTD. BERMONDSEY, LONDON, S.E.16

PACKED GOODS



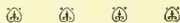
*of Quality
and other products
which
Justify Confidence*

The Quality of our products is
such that we have every confidence
in them. Though the price is low
we can guarantee satisfaction.



CHEMICALS, DRUGS GALENICALS

*All Chemicals and Drugs guaranteed to
conform to B.P. where stated, and in
other cases to be of absolutely first-class
quality. Samples on request. Personal
attention given to all orders. Trial
Order solicited. All goods delivered free
in London. Country free £2 and over.*



Our Speciality:
PARAFFINUM LIQ.



**REDDGRAVE, BUTLER
& CO., LTD.**

Forest Lane, Stratford,
London, E.15

Phones: Maryland 1799. Maryland 3357.
Wires: "Paraliq, Forgate, London."

BRADY & MARTIN



Offer **LIMITED**
Northern Pharmacists
Prompt Service,
Keen Prices and Good Quality.

Seasonable
"Own Name"
Packed
Goods.

GALENICALS
COD LIVER OIL
EMULSION
MALT EXTRACTS
PILLS AND TABLETS

Well-known Specialities:

HEPATISAL KRITHOL
SEPTOPHON CREAM and
DUSTING POWDER

VISITS AND ENQUIRIES INVITED.
FREQUENT MOTOR VAN DELIVERIES.
SPECIAL QUOTATIONS FOR QUANTITIES.

**Northumberland Road
NEWCASTLE - UPON - TYNE.**

'Phone: Central 5618/9. Wires: "Martin, Newcastle-upon-Tyne."

GLYCERINE

The chemically pure glycerine supplied by us is
guaranteed to comply with all the requirements
of the Food and Drugs Act and the British
Pharmacopœia.

PRECIPITATED CHALK. Finest and lightest,
also heavy grades.
COD LIVER OIL. (Finest Lofoten.)
CASTOR OIL. **OLIVE OIL.**
DECOLORISING CARBON.
PERSULPHATES: Ammonium, Potassium & Sodium.

HALLER & PHILLIPS, LTD. (Established as GEO. HALLER & CO., in 1878)
Mildmay Chambers, 69 Bishopsgate, London, E.C.2.
Phones: London Wall 4456/7. Tel. Add.: "Haloid, Stock, London."

HOPKIN & WILLIAMS
LTD.

**FINE
CHEMICALS**

**16 & 17 Cross Street,
Hatton Garden, E.C.1.**

Emetine

PURE
HYDROCHLOR
HYDROBROM

“Whiffen”

Guaranteed Pure and
free from Cephaeline



MANUFACTURED BY

Whiffen & Sons, Ltd.

INCORPORATING

GEORGE ATKINSON & Co.

BATTERSEA AND FULHAM, LONDON, S.W.

Telephone Nos. :
PUTNEY 3993 (3 lines).

Telegrams :
WHIFFEN, LONDON.



Beecham's Pills

1s. 3d. size - 11s. 9d. per dozen
3s. 0d. " - 28s. 0d. "
5s. 0d. " - 54s. 0d. "

Beecham's Powders

1s. 3d. size (8 Powders) 11s. 9d. per dozen
5s. 0d. " (40 ") 54s. 0d. "

Less 2½% Cash Discount.

A further 5% allowed for Window
or other Advertising display.

Orders—Minimum Quantity FIVE POUND
(Assorted sizes, Pills and Powders).

PACKAGES FREE. CARRIAGE PAID.
TERMS: CASH WITH ORDER.

All communications to be addressed and cheques made payable to:

BEECHAMS PILLS LIMITED,

Sales Office:

BEECHAM-VENO Buildings, Chester Road, MANCHESTER

Kaylene (Colloidal Kaolin) -	3/-
Kaylene Dulcis - - -	3/-
Kaylene Saline - - -	4/9
Kaylene Mint - - -	3/9
Kaylene Lax - - -	4/3
Kaylene-ol - - -	5/-
Kaylene-ol c Phenolphthalein	5/6

COLONOL LIQUID PARAFFIN

20 oz. 4/-

" " " 40 oz. 7/-

and in ¼, ½, 1, and 2 Gallon Tins.

P.A.T.A. Special Terms for £5 Order.

Sole Agents for

"KAKRISPA" SWEDISH RYE BREADS

KAYLENE LIMITED

73 JUDD STREET, KING'S CROSS, W.C.1

Tel., MUSEUM 6804.

Packed

HOUSEHOLD AMMONIA

in various sizes of bottles to
suit all classes of the trade

FINEST VALUE EVER OFFERED

THORNTON & ROSS, LTD.

MILNSBRIDGE, HUDDERSFIELD.

MATTHEWS & WILSON Ltd.

Manufacturing Chemists,

6/8 Cole St., LONDON, S.E.1

FOR ALL

PILLS & TABLETS

BY THE GROSS,
THOUSAND OR MILLION.

QUININE

QUINIDINE
CINCHONINE
CINCHONIDINE

Sugar-coated Quinine Tablets and Pills.

BANDOENG
JAVA

BANDOENG QUININE FACTORIES

Telegrams: "Kininefabriek Bandoeng."

Samples, prices and particulars on application.

Telegrams: "Semadmy Amsterdam."

and

SALTS

Gelatine-coated Oval Pills.

AMSTERDAM
De Wittenkade 48-50.



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is warranted to contain upwards of

99.9 PER CENT.

of pure oxide; in fact, the impurities are not traceable.

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C.3

MANUFACTURERS OF WHITE LEAD, WHITE ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen Street, Melbourne.

Sold by the following Wholesale Druggists in Boxes of 7 lb. and 14 lb. stamped by the Manufacturers; also in 1-lb. Boxes and 1-ll. Glass Bottles:

Allen & Hanburys Ltd.	Hodgkinson, Prestons & King
Ayrton, Saunders & Co. Ltd.	Horner, L.A., & Sons
Bell, Jno., & Co.	Huskisson, H. O., & Co.
Bleasdale Ltd.	Inman's Stores (of Edinburgh)
Boots Pure Drug Co. Ltd.	Lothhouse & Saltmer Ltd.
British Drug Houses Ltd.	Mackay, Jno., & Co. Ltd.
Burgoyne, Burbidges & Co.	May, Roberts & Co. Ltd.
Butler & Crispe Ltd.	Oilfield, Pattinson & Co.
Clay, Dod & Co.	Pinkerton, Gibson & Co.
Cockburn & Co. Ltd.	Potter & Clarke Ltd.
Corbyn, Stacey & Co. Ltd.	Raines, Clark & Co.
Dakin Brothers	Raines & Co.
Duncan, Flockhart & Co.	Rankin & Borland
Evans, Gadd & Co. Ltd.	Silversides, R. B. G.
Evans Sons Lescher & Wehl Ltd.	Smith, T. & H. Ltd.
Ferris & Co.	Southall Bros. & Barclay Ltd.
Gale & Co.	Sumner, R., & Co.
Glasgow New Apothecaries Co.	Thompson, John, Ltd.
Goodall, Backhouse & Co.	Wilkinson & Simpson Ltd.
C.R. Harker, Stagg & Morgan Ltd.	Willows, Francis, Butler & Thompson Ltd.
Harkness, Beaumont & Co. Ltd.	Woolley, Jas., Sons, & Co. Ltd.
Hatrick, W. R., & Co.	Wright, Layman & Umney Ltd.
Hirst, Brooke & Hirst	Wyleys (Ldm.)

Barry, E. J., New York	Muth Brothers & Co., Baltimore
Finlay Dicks & Co., New Orleans	S. B. Penick & Co., Inc. New York
E. Fongera & Co., 90-92 Beekman Street, New York	Roller & Shoemaker, Philadelphia
Chas. L. Huisking, Inc., 5 Platt Street, New York	Schiffelahn & Co., Inc., New York
Lehn & Fink, Inc., N. York	Shoemaker & Busch, Philadelphia
McKeeson & Robbins, Inc. New York	

**ACID
SALICYLIC**

Warrington Chemical & Drug Co., Ltd.
Paddington, nr. Warrington.
Telegrams: "Salicin, Warrington."

PARA AMIDO PHENOL

**SODA
SALICYLATE**

BURKETT, SHARP & CO., LTD.
DRUGS **8 HARP LANE** **CHEMICALS**
LONDON, E.C.3

**WE SPECIALIZE IN
THE MANUFACTURE OF**

GALLIC ACID - PYROGALLIC ACID

PURE & TECHNICAL

RESUBLIMED, PURE CRYSTAL & TECHNICAL

WHOLESALE & EXPORT ONLY. Enquiries Invited.

J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX.

TELEPHONE: GRANGEWOOD 0076.

TELEGRAMS: "GALLIC, BARKING."

Increased Profits on Irving's YEAST-VITE Tablets

AND  VITAMIN FOOD

On and after APRIL 2nd, 1928, YEAST-VITE Tablets and YEAST-VITAL will be sold under P.A.T.A. protection as follows:—

YEAST-VITE	Sizes	1/3	3/-	5/-	12/-	24/-		
	at	12/-	28/10	48/-	114/-	220/-	per doz.	Nett 30 Days
YEAST-VITAL	New Sizes	7 1/2 d.	1/2	2/2	5/-	9/6		
	at	6/-	11/3	20/9	48/-	90/-	per doz.	

SPECIAL WINDOW SHOW BONUS TERMS

Cancelling all previous Bonus arrangements.

For a 14-days' Window Display Bonus will be given as under:

YEAST-VITE	14 to the Dozen on £5 order and over (Assorted Sizes)	Bonus on 1/3, 3/- and 5/- sizes only.
13	£3	

"No Bonus" on 12/- or 24/- sizes, or less than 1/2-dozen 5/- size.

<u>EXAMPLES</u>		Order.	Bonus.	Order.	Bonus.				
3 doz.	1/3	£1 16 0	3 only	1/3	4 doz.	1/3	£2 8 0	8 only	1/3
1 "	3/-	1 8 10	1 "	3/-	1 1/2 "	3/-	2 3 3	3 "	3/-
1/4 "	5/-	0 12 0			1 1/2 "	5/-	1 4 0	1 "	5/-
		<u>£3 16 10</u>	EXTRA PROFIT 6/9			<u>£5 15 3</u>	EXTRA PROFIT £1 4 0		

YEAST-VITAL 13 to the Dozen on £3 order and over (assorted sizes).

The Prominent Display of New and Attractive Show Material Will Double Your Sales.

Write for Photographic Illustrations (with sizes) of New Showcards, Cut-outs, etc., sent FREE and carriage paid on request.

IRVING'S YEAST-VITE LIMITED

Phone: Clerkenwell
4623 (2 lines).

12-16 LAYSTALL STREET, CLERKENWELL, LONDON, E.C.1

Wires: Yeastovite,
Cent, London.

ESTABLISHED 1772

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity, by

Messrs THOMAS & WILLIAM HENRY, 11, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name.

Trade Mark, "Henry's Calcined Magnesia."

New York: Messrs. SCHIEFFELIN & CO. William Street.

PRICE, 2s 9d

Paris: Messrs. ROBERTS & CO. 5, Rue de la Paix.



TRADE MARK
REGISTERED
NO. 462,940

"SPETON"

Originally known to the
Medical Profession as
"SPERMATHANATON."

Entirely free of Quinine and Cocoa butter

ANTISEPTIC PROPHYLACTIC TABLETS

Manufactured by (New English Registered Packings of 12 Tablets) Sole Agents for U.K. & British Colonies,
The Temmler Chemical Works, Berlin. COATES & COOPER, 41 Gt. Tower St., London, E.C.3

"CEPHOS"

The Physician's Remedy for Headache, Neuralgia, Neuritis, Rheumatism, and Influenza.

Liberal Trade Terms
Powerful Advertising

Sole Proprietors:
CEPHOS, Ltd.
BLACKBURN.

Powders and Tablets
Retail at 1/3 and 3/-

A Wish—

"**G**OOD Business to all Chemists" is the wish of Genatosan Ltd. May the Exhibition herald an increase in business in every sphere of pharmacy, and may it be *good* business bringing satisfaction to the Chemist, the Manufacturer, and the Public alike—the business that results from the sale of *good* products.

—and An Invitation

COME to the Genatosan Stand (No. 74), where effective aids to the selling of Genatosan products may be inspected. Of especial interest is a new Genasprin window show—a *good* show, a notable advance in window-salesmanship—the first of a series of new *good* business-bringing shows which will effectively link your pharmacy with the extensive advertising of Genatosan products.

SANATOGEN
FORMAMINT
(Wulfig Brand)

[*Stand*
74]

GENASPRIN
NASMINT
etc.

GENATOSAN LTD., LOUGHBOROUGH, LEICESTERSHIRE

MARMITE

NO wonder everybody is asking for Marmite!

Not only is this great Yeast Food brought strongly before the public by powerful advertising, but distinguished Medical men recommend it in the public Press as one of the richest known sources of the much-discussed "Vitamin B."

Make a feature of Marmite.

RETAIL PRICES

1 oz. Jars, per doz. 6/-	8 oz. Jars, $\frac{1}{2}$ doz. 15/-
2 oz. " " 10/-	8 oz. " per doz. 30/-
4 oz. " " 18/-	16 oz. " $\frac{1}{2}$ doz. 27/-
16 oz. Jars per doz. 54/-	



MARMITE FOOD EXTRACT CO., LTD.,
Mincing Lane House, 59, Eastcheap, London, E.C.3.

LOSALL'S SALT

SELLS FREELY AND READILY.

PAYS 50% ON OUTLAY.

An infallible remedy for

Gout
Rheumatism
Eczema & Skin
Affections

P.A.T.A. doz. net
4 oz. tins 1/-, 8/-
8 oz. " 1/9, 14/-
Bottles 2/-, 16/-

Attractive advertising
matter supplied on
application.



SOLD EVERYWHERE.

Manufactured by

LOFTHOUSE & SALTMER, Ltd.
HULL.

CAMWAL

TABLE WATERS - in Syphons & Bottles
LEMONADE POWDER } in Packets, Cartons,
AQUAPERIA WATER } and Canisters,
or SALTS (P.A.T.A.) } WINDOW
LEMON-SQUASH - in 26 oz. Bottles. DISPLAYS.
(with plain or Soda water forms a delicious drink).

HOME and EXPORT PRICES and TERMS on application.

CAMWAL, Ltd. LONDON, MANCHESTER, BRISTOL,
BIRMINGHAM, HARROGATE.
City Office: 52 Queen Victoria Street, LONDON, E.C.4
Phone: City 4497.

RIDGE'S FOOD

for Infants and Invalids

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL
DISPLAY TERMS ON APPLICATION TO:

ROYAL FOOD MILLS, LONDON, N.16

WINDOW STICKERS FOR Non Substituting CHEMISTS

'ASPRO'

We have been requested by chemists to supply anti-substitution advertising matter. We have, therefore, prepared this window sticker, size 23½ ins. x 7 ins. We suggest you write for one to-day. It will be sent Post Free

Write for this
TO-DAY



ALSO PUT IN AN 'ASPRO' WINDOW DISPLAY—Connect up with 'ASPRO' continuous advertising and make £5 to £10 a week.

**ASPRO IS LISTED ON THE P.A.T.A.—
and shows you a protected profit**

LOOK WHAT CHEMISTS SAY

Chemists are realising the fact that by devoting their window display to advertised goods they are sharing the goodwill of about £10,000,000 worth of advertising yearly. 'ASPRO' is perhaps the best demonstration of this principle that England has seen. 'ASPRO' spends £250,000 a year in advertising and is increasing its appropriation as sales grow.

The chemist who places the 'ASPRO' Window Display in his window gets the benefit of this advertising just the same as if his own name appeared in the advertisement. Demonstrated results are always better than statements, so we herewith give one from the many letters received from chemists who are featuring 'ASPRO' Window Displays. It tells its own story.

Messrs. Gollin & Co. Pty. Ltd.

Dear Sirs,—I have pleasure in enclosing for your inspection a photograph of 'ASPRO' display. This display has been entirely successful except winning a prize in the competition which is yet to be judged. Apart from that I am well pleased with the results. Taking into consideration that 'ASPRO' is extensively advertised and has become a household word with people, I think that when I state that the sales almost doubled themselves that this fact is worth recording. Over and over again they are being bought by those who have once taken them. This in short is eloquent testimony of their worth. That they do what you claim I have no doubt, and however critics may argue their composition 'ASPRO' remains pre-eminent, or, as I show in the window, "the best by every test." Faithfully yours—

P.S.—In fairness to 'ASPRO' I should state that 'ASPRO' customers are frequently customers for other goods (*verb. sap.*).

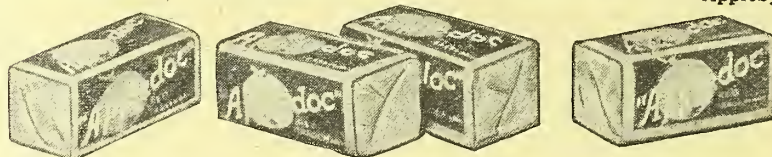


'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to medical science, and its claims are based on its superiority.

Agents. **GOLLIN & Co. Pty. Ltd. ('Aspro' Dept.), SLOUGH, Bucks.**

No proprietary right is claimed in the method of manufacture or the formula.

'Phone: Slough 608.



A
**National Chemical Holdings'
Preparation**

We are launching a wide-spread advertising campaign from which you will benefit.

ENQUIRIES &
PRELIMINARY
INSTRUCTIONS
:: INVITED ::

The National Chemical Holdings
LIMITED,
Appley House, 46 St. James's Place,
LONDON, S.W.1

*"Appledoc" is a pleasant
and attractive laxative
equally suitable for adults
or children.*

Dr. BENGUE'S BALSAM

RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUE'S ETHYL CHLORIDE.
Dr. BENGUE'S DRAGÉES.—EUPURGO.
PULMO (BAILLY).—FORXOL.—OPOBYL.
ANESTILE.—NARCOTILE.—HEMOSTYL.
LIPIODOL.—MUTHANOL.—ARHEMAPECTYL.
ENTERO ANTIGENS.—STAPHYLOTHANOL.
NEOPANCARPINE, RICARD'S CACHETS.

BENGUE & CO., LTD., MFG. CHEMISTS,
24 FITZROY STREET, LONDON, W.1.

It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE has become a household word, and the public, through satisfaction which comes after trial, are demanding IGLODINE PREPARATIONS. Are you the retailer who is preparing to meet the demand?

Iglodine.

The Safe and Pure Antiseptic

Write to-day for full particulars to:

THE IGLODINE CO., LTD. • Newcastle-on-Tyne.

DISPLAY IT IN YOUR WINDOWS!

At this time of the year—when coughs, colds, influenza and bronchial troubles are so prevalent—the demand for Licoricine is at its greatest. Tie up with our advertising by displaying it in your windows, on your counter and on your shelves. Free display material sent on request. If you are out of stock—order now either direct or through your wholesale house and get your share of this business.

Licoricine

ACTS LIKE MAGIC

Prices 10½d., 1s. 3d. and 3s.

MANDALL & Co., Ltd., 17/23 Stepney Rd., Newcastle-on-Tyne

TERMS

10½d. size, 8/6 per doz.
1/3 " 12/- "
3/- " 27/- "
Less 5% dis. on 25 orders.

10½d. size, 8/1 per doz.
1/3 " 11/5 "
3/- " 25/8 "
Carriage paid on orders of
and over.

PARKE, DAVIS & CO.

GERMICIDAL SOAP

for the Bath



THERE is an opportunity to increase considerably the sales of Germicidal Soap P., D. & Co., during the coming summer by featuring it as the ideal *bath soap* for summer use—the sensible, and comfortable way to rid the body of perspiration odours.

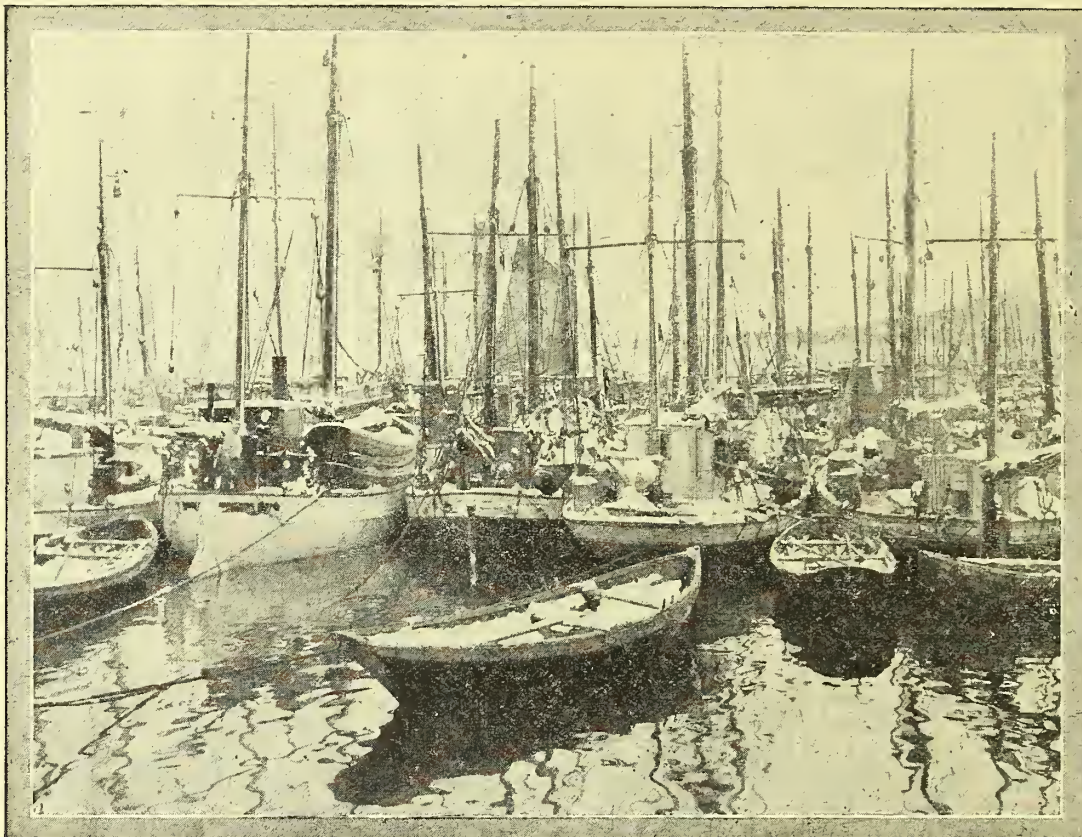
Germicidal Soap, P., D. & Co., is exclusively a chemists' soap—with so large a variety of uses that it presents an unusually wide field for sales. It carries an excellent profit, particularly if bought on special terms. An item worth pushing.

M.R.P. 1/3 each. M.W.P. 10/2 per doz.

Take advantage of our Special Terms.
Ask our representative or write to us
at Beak Street.

PARKE, DAVIS & CO., BEAK STREET, LONDON, W.1.

D D

*Photo Wilse*

Favourable Climatic Conditions.

By far the greater part of the cod, the liver of which is used for the production of Norwegian codliver oil is caught in the winter and early spring, when the temperature of the air is low, i. e. from about 19° to about 39° F.

This, in conjunction with the fact that the distance from the fishing grounds to the refineries is never long, ensures perfect freshness. Norwegian medicinal codliver oil is unexcelled in vitamin content, and is practically tasteless and odourless.

Antirachitic



Growth-promoting

NORWEGIAN MEDICINAL CODLIVER OIL

Service Boxmakers

A BOXMAKER is a manufacturer who makes boxes to order and nothing else; a Service boxmaker is a manufacturer—

who suggests novel and serviceable carton-shapes;

who has a fully-equipped studio where experts in label-design are employed for the benefit of customers and prospective customers;

who is able to turn out the very best printing and lithography;

who can give good advice on all questions relating to the packing of any and every class of goods;

who can give this Service at a reasonable price.

If you want help on your packing problems write to the Service boxmakers who know their business, and whose address is given below.



ROBINSON & SONS, Ltd.,
Wheat Bridge Mills,
CHESTERFIELD.

Robinson & Sons, Ltd.

Manufacturers of Round, Oval, Square,
and Folding Cardboard Boxes.

Chesterfield & London



ROBINSON & SONS, Ltd.,
168, Old Street,
LONDON, E.C.1.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street
LIVERPOOL.

523 Salisbury Hse
Finsbury Circus
LONDON.

Deansgate Arcade
MANCHESTER.

Martineau Street
BIRMINGHAM.

Wellington
Chambers
LEEDS.

PETROLEUM JELLY
("SALVO PETROLIA")
BRAND

THE PERFECTION OF PETROLEUM JELLY
MANUFACTURED SOLELY BY

THE DEE OIL CO. LD
D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL

TELEPHONE: CENTRAL 3859 TELEGRAMS: "CESTRIAN"

LONDON OFFICE
11 POULTRY, CHEAPSIDE, E.C.2. PHONE: CITY 8455

PACKED IN BARRELS, KEGS OR
SMALLER PACKAGES IF DESIRED.

OTHER GRADES OF
PETROLEUM JELLIES, WHITE BASES ETC.
WHITE OILS, B.P. & Technical Qualities

SAMPLES & PRICES ON APPLICATION

OLEUM DEELINÆ (DEE OIL)
THE UNFAILING CURE FOR ECZEMA

FRANCIS F. FOX & Co. Ltd.
BRISTOL

LINSEED OIL
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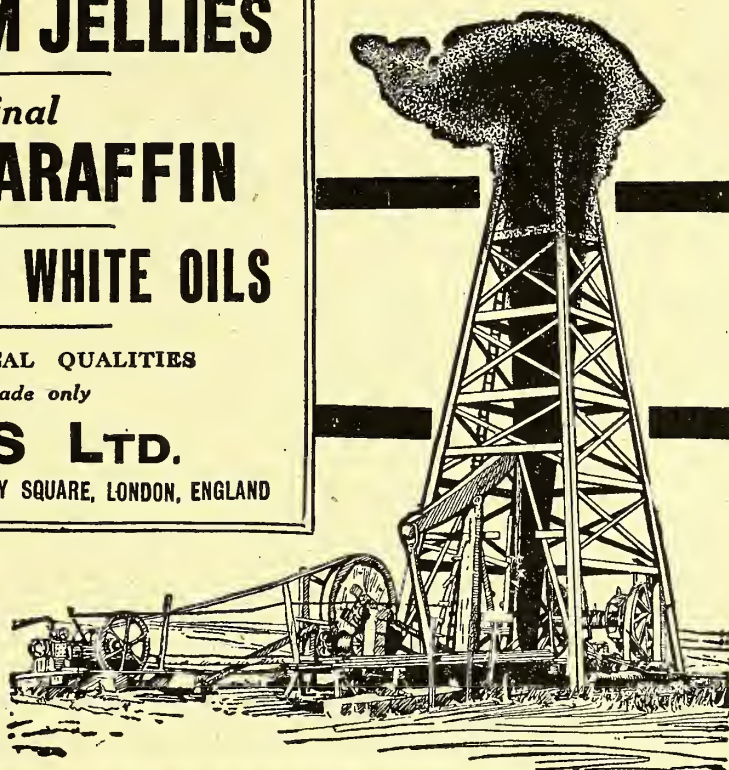
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Wholesale Trade only

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WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
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*Works at
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PARAFFINUM LIQUIDUM B.P.
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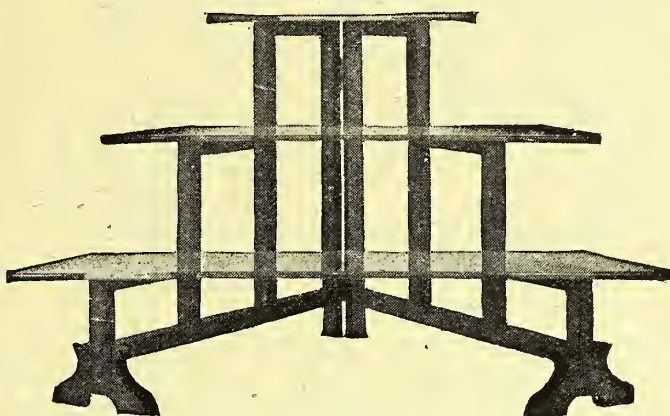
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Glass
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4"	6"	8"	10"
8/9	10/-	14/6	21/-
12"	14"	16"	18"
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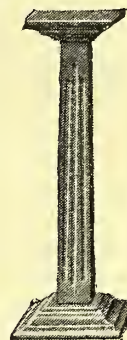


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Light make.

6"	9"	12"	15"
2/3	2/8	3/1	3/6
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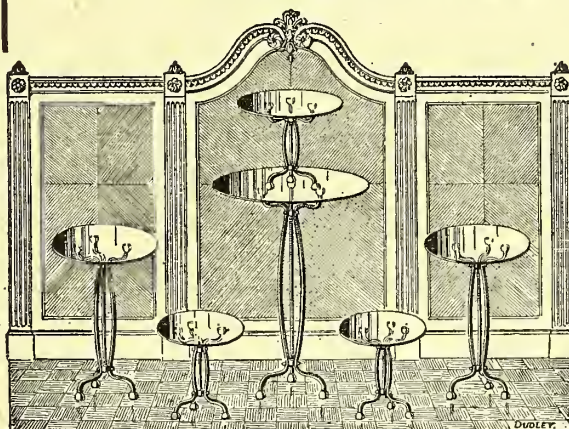
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Satisfied customers are an asset.

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2"	2½"	3"	3½"	4"
Cost: 12/-	15/3	18/3	21/3	24/3
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Discount for quantities: 3 doz. 2½%, 6 doz. 5%

Stocked by all the leading wholesalers.

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Crepe Bandages

Oldest British Manufacturers. Lowest Prices. Highest Qualities.

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they always come
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NEVER.*THE TRADE EXCLUSIVELY
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Excellent and most attractive. The Plasters are self-adhesive, consisting of a curative non-poisonous centre and a pressure removing ring, mounted on a strip of self-adhesive plaster. They are packed six complete sets in a hinged enamelled tin box. Show material of a very artistic character is supplied free with orders.

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One dozen on Card. Three dozen in Counter Box with half show material. Six dozen with full show material. One Gross with full show material and one dozen bonus.

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The Name of

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The public is asking
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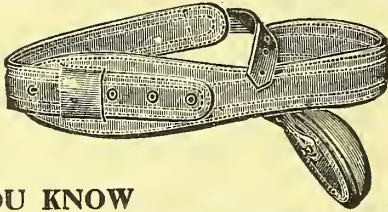
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The "Hernicura" "COMFORTABLE"

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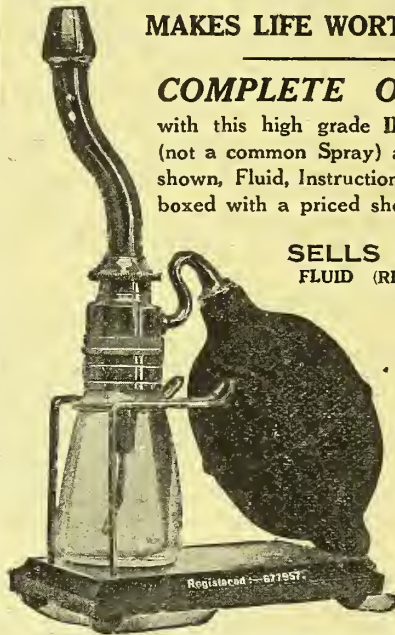
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THE BEST MADE SOOTHER ON THE MARKET.

Each Soother packed in Dust-proof Carton.

No stale stock from exposure or handling.

2 dozen Soothers in Artistic Container, as illustrated.



Ask also for SIMPLIC TEATS Each in Carton.

Packed in Display Outer of 3 dozen assorted Teats.

The Name "SIMPLIC" is a Guarantee of Excellence.

SIMPLIC SPRINGLESS TRUSS

FOR BATHING AND EVERYDAY WEAR.

Made with Circular, Inguinal or Scrotal Pads.

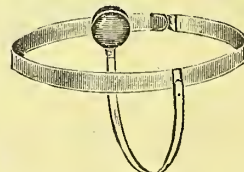
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FITS EVERY SIZE & SHAPE PERFECTLY.

SUITABLE FOR ALL CLIMATES.

The SIMPLIC TRUSS is specially designed for Bathing. It gives just the correct support for each case.

ASK YOUR WHOLESALE FOR LATEST TERMS.

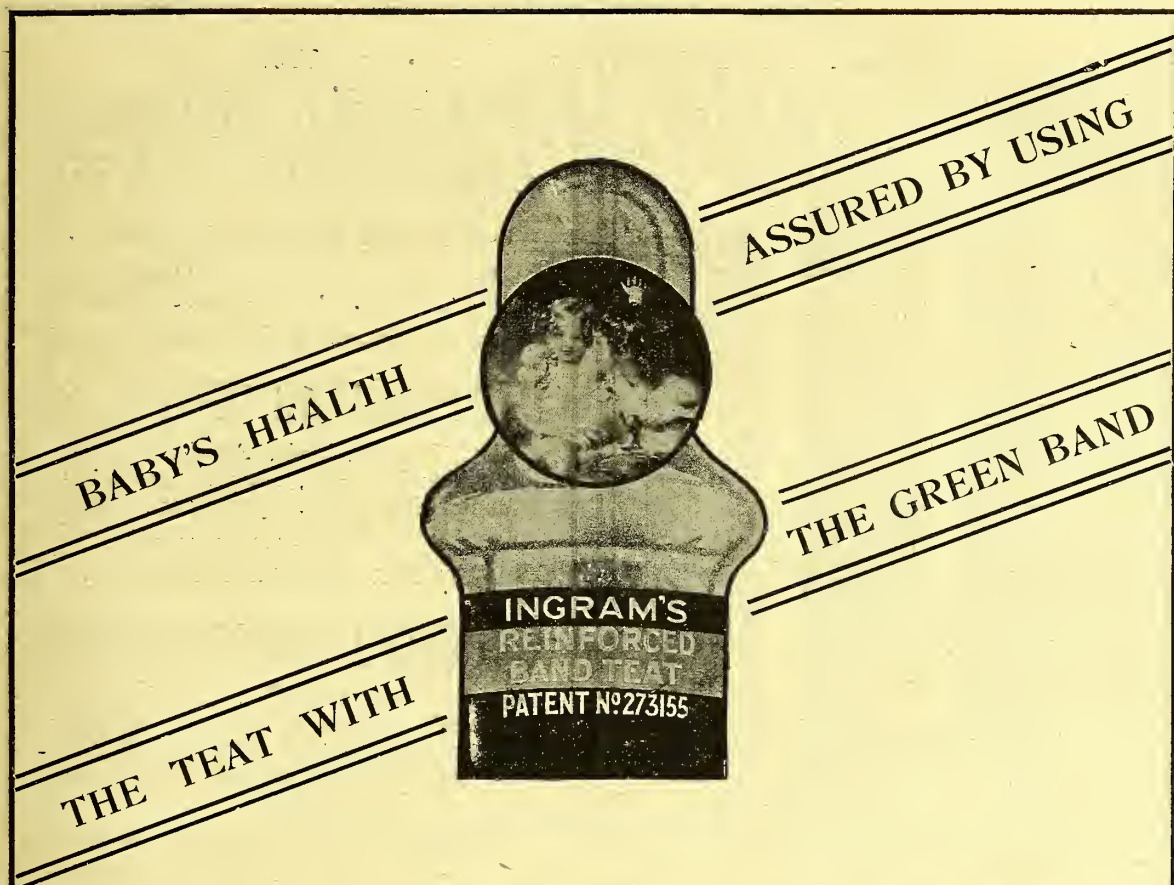


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Manufactured by **J. G. FRANKLIN & SONS, LTD.**, BIRKBECK RUBBER WORKS, LONDON, E.8.

Makers of Fine Rubber Products for over Sixty Years.



INGRAM'S "AGRIPPA" TEAT

IS NOW FITTED WITH THE

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Put up in transparent cartons, ready for sale, no packing or wrapping required. Ensures perfect cleanliness in handling.

Packed one dozen in counter display box.

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Obtainable from all Wholesale Houses.

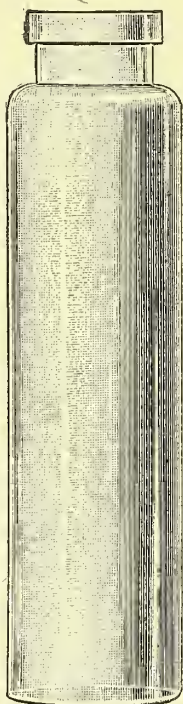
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VIALS*British made on British Machines.
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Accurately made with Flat Bottoms.**Enquiries Invited.***GLASS PRODUCTS LTD.**125 High Road, E. Finchley,
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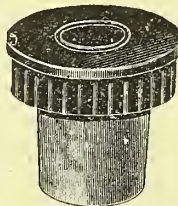
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In addition they are British made.

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Any Colour.A suitable Compo-
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BEST IN QUALITY & APPEARANCE*Self-Fixing***R.V. WAGNER**

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ALUMINIUM OINTMENT BOXES

BRITISH MAKE

LIGHT, CLEAN, CONVENIENT AND CHEAP.

**NOTE THESE
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IN PRICES**



$\frac{1}{2}$ -oz.

Per gross	..	$\frac{1}{4}$ oz.	7/3
"	..	$\frac{1}{2}$ oz.	7/9
"	..	1 oz.	12/-
"	..	2 oz.	18/-

We also have them embossed with the following words:

Boric Acid Ointment.	Zinc Ointment.	Vaseline.
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With any of these Imprints the prices are:

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For large contracts special rates will be quoted.

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

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The unique experience of our Works,
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Self-Fixing, Hermetically Closing

BOTTLE-CAPS

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Immediate Delivery



When wet.

White and
all Colours.

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All sizes.



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Obtainable only from—

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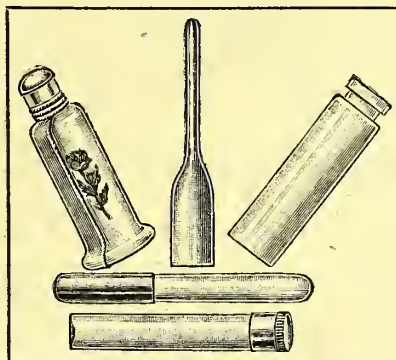
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Vials, Tubes, Miniature Bottles

PLAIN or FANCY,
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AT LOWEST FACTORY PRICES.

Manufactured as a Speciality by
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We solicit your enquiries and specifications.

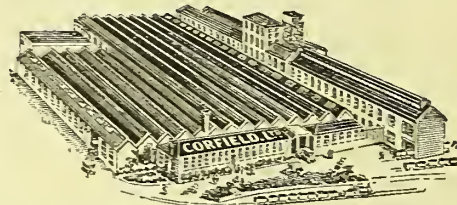
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IN PURE BRITISH ALUMINIUM OR GILDING METAL.

We Specialise in all the above, and the Corfield plant embracing
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We have a special scheme for our customers, including 10,000 handbills and 200 letters. Delivered carriage paid at five different periods of the year for less than £2.

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**POSTCARD
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per return of post.

2/- for one dozen;

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3d. singles off one negative.

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Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

THERE is no more attractive line on the market to-day—there is no better seller—and no article has made larger strides in popular favour.

FAIRY DYES

are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

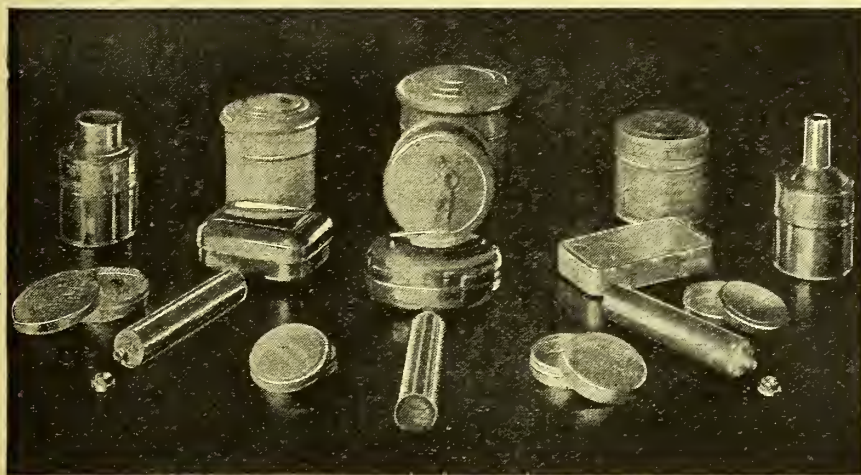
For Trade Terms and particulars write to

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**61 WELL ROAD,
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London Depot - - - - 292 UPPER STREET, ISLINGTON, N.1.

Beauty in the Box.



A selection of aluminium boxes and collapsible tubes by Messrs. H. G. Sanders & Son, Ltd., Southall.

THE best of toilet requisites sell better in attractive containers. That explains the wide use of aluminium for boxes and collapsible tubes carrying cosmetics, soaps and creams. Here one finds a rustless metal, clean in appearance, capable of effective shaping and most dainty finishes, and decidedly economical.

Aluminium

THE BRITISH ALUMINIUM CO., LTD., Aluminium Producers, Adelaide House, London, E.C.4

A STRAIGHT 6d., 9d. & 1/- LINE

THAT NO ONE IS ALLOWED TO CUT.

The Ink is right and terms are right.
The sale increases every year, proving
its popularity with the Trade and Public.

RECOMMEND

**JOHN BOND'S
'CRYSTAL PALACE'
MARKING INK**

Established 125 years, in the Reign of King George III.
6d. size 4/3 per doz., 9d. size 6/- per doz.
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Showing Retailers 30% on turnover on the
6d. size, and 33½% on the 9d. and 1/- sizes.

A Linen Stretcher and Special Marking
Pen given with the 9d. and 1/- sizes.

WHOLESALE TERMS:

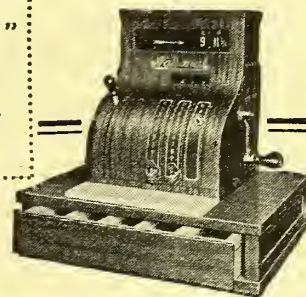
MINIMUM—1 gross 6d., 44/-, or mixed order to same value,
1 gross 1/-, 80/- subject to customary discount on quantities.
9d. Bijou Cabinets 60/- per gross net.

CARRIAGE PAID on parcels of £2 4s. 0d. and upwards.
When ordering, please specify if HEAT OR NON-HEAT is required.

23 YEARS ON THE P.A.T.A.

Manufactory: 75, Southgate Rd., London, N.1

This "National"
and any other
model can
be secured
on easy terms
of payment.



The Price
of this
New Model

**NATIONAL
CASH REGISTER**

is **£19** (5% discount
only for cash)

Records sales from ½d. to 9s. 11½d. Amount of
each sale clearly indicated back and front.
All sales automatically added into one total.
Large well made cash drawer opens automatically.
Bell rings when register is operated. Quick
and easy to use. Modern steel cabinet, best
mahogany finish.

Write for further details (Dept. C&D)

The National Cash Register Co., Ltd.,
225 Tottenham Court Road, London, W.1

LARGEST
SALES**Eureka**
**WEED
KILLER**The
CHEMISTS' Favourite Brand.Sales through Agents' not direct.
Advertising matter for window display
supplied, also counter
bills, booklets,
etc.WRITE FOR
LIST
PRICE
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Telephone No. 108.TOMLINSON & HAYWARD, LTD.
51 Newland, LINCOLN.From the Lone Island
of Tristan Da CunhaDated - August, 1927.
Received March 30, 1928.

"We are over-run with Rats here. I took
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silences them immediately. Will you be so
kind as to send us some more Rodine, etc.?"

This remarkable testimonial proves once
again the oft-repeated phrase that Rodine is**ALWAYS AND EVERYWHERE**the right weapon for
the Rat War. Push
Rodine and prosper.
Buy it direct from
the Maker:—**THOMAS
HARLEY**

Manufacturing Chemist

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BOB MARTIN'S
TASTELESS
CONDITION POWDERS

show a profit of 38%

and are advertised in daily papers having
a combined sale of more than SEVEN
MILLIONS a day.For 19/6 you can obtain a good selection
of Bob Martin preparations and a supply
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BOB MARTIN LTD., SOUTHPORT, LANCs

**Chemists' Fittings**When you want Shop Fittings it
will pay you to send to**GEORGE COOK**

The Chemists' Working Shopfitter.

27 Macclesfield St., City Road, E.C.1
LONDON.

30 years' experience.

Rough Sketches free.

*Don't buy "tips" - buy Tipppers***COWS RELIEF**
Expels Terror of Caked Bag
CURES SORE TEATS
Saves the Udder

CUSTOMERS SAY: "A BLESSING IN THE HOUSEHOLD AND IN THE STALL"

"VERY GOOD FOR HARD BAGS."

"CURED A BAD CASE OF GARGET."

"COWS RELIEF IS VERY RELIABLE."

Specimen tin, 6/6

12 tins, 14/-, 21/-, & 45/-

B. C. TIPPER & SON, LTD., THE VETERINARY CHEMICAL WORKS, BIRMINGHAM.

To Our REX Customers

—A Personal Message

I cannot call to see more than a small number of our customers, yet I feel that there are occasions when a personal talk would mean a hundred times more profit for both of us.

We have claimed that REX is not only a Summer line, but one that will sell in some volume all the year round. I would prove this to you if I could call. Our representatives report, for instance, that quite good sales have been made during April wherever REX has been given a reasonable display. As our advertising starts in real earnest at the beginning of May, May sales should exceed April's. Then come the hot Summer months—the big selling months for REX.

If you are not displaying REX you are simply losing some of the business which we are paying generously to create.

You should have adequate advertising material. If you have not, write to me at once and I will see that you get it, because neither you nor we can afford to have you selling a few bottles a week, when you could sell dozens.

In its third year of successful sales, REX is now recognised as not only the ORIGINAL and STANDARD, but as the unquestioned leader in public favour.

No other line shows the same profit plus quick turnover.

H. J. HOXBY.

P.S. If this happens to catch the eye of one of the comparatively few who do not stock REX LIQUID INSECT KILLER, I would appreciate if he wrote me a postcard.

I shall be glad to send him some interesting particulars and will arrange for a free 2/- sample bottle to be delivered to him.

Just address me at Tibo Products Co., Ltd. (mentioning "THE CHEMIST & DRUGGIST") and I think I can promise you a pleasant surprise.

Rex Liquid Insect Killer kills all insects by simple spray. Every bottle carries a free mouth sprayer. It is heavily advertised, is sold on a "Money back if it does not kill" guarantee and the season's just starting.

REX LIQUID INSECT KILLER

**KILLS FLIES, MOTHS, GNATS
BEETLES, BUGS, FLEAS, ETC.**

**TIBO PRODUCTS
COMPANY LIMITED
55/63 Goswell Road
LONDON
E.C.1**



SPRING CLEANING

Tell Your Customers

Keating's adds an extra touch of thoroughness to Spring-cleaning—the time for getting rid of household pests. Sprinkle or puff it into dark corners and crevices, wherever Moths threaten or Beetles hide.

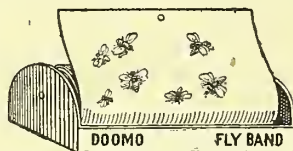
Keating's does not evaporate. Harmless to animals.

**Keating's kills Moths,
Fleas, Bugs and Beetles.**

means
increased Sales of
KEATING'S



Stock up NOW to meet the Demand
Cartols 2^d, 6^d, 1/- Filled Bellows 1/-
Large Size Tins 4/-



THE DOOM OF THE FLY

"DOOMO" FLY BAND,
wide and long,
also narrower one.

SMITH & CO.,
Doomo Works, NEWARK.

Sherley's

WORLD FAMOUS

Medicines

LACTOL AND LACTOL BISCUITS

P.A.T.A.

LACTOL and LACTOL BISCUITS have established the good name of Sherley with all dog lovers and breeders. Sherley's dog and cat medicines have created confidence and consequently command a ready sale.

Big advertising is behind all Sherley products. They are protected at prices showing the retailers a good profit margin, and our terms protect you against all possibility of loss. Excellent literature and showcards cover our various products. We realise your interests are ours.

**WRITE FOR
PRICE LIST
AND TERMS**

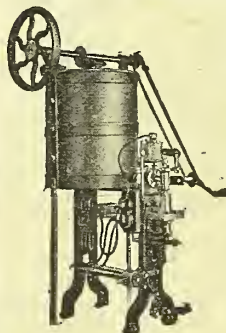
A. F. SHERLEY & CO., LTD.
18 Marshalsea Road, London, S.E.1.

Roberts' Original Patent BOTTLE FILLING MACHINES

The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-.

Soundly constructed, simple in action, easy to clean.

NEW PATENT SHALLOW TIN FILLING MACHINES.



"ROYAL"

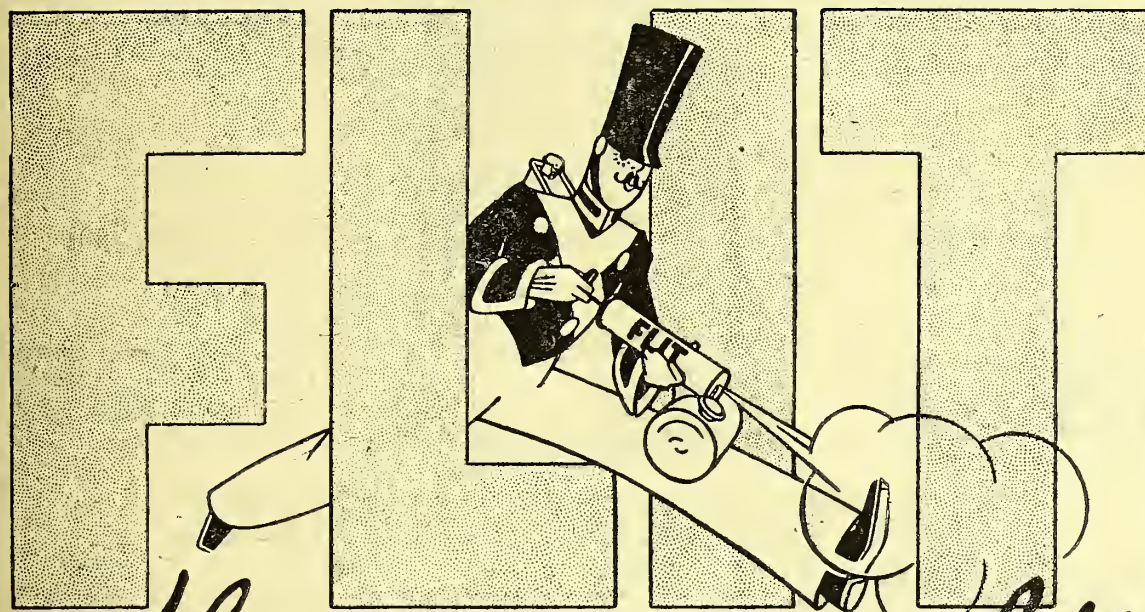
Automatic CAN FILLING
MACHINES, MIXING
MACHINES, CORKING
MACHINES.

NEW PATENT ACCESSOR-
IES TO "NELSON,"
"VICTOR" and "NAVY"
BOTTLE FILLING
MACHINES enable them to be
used as Vacuum Fillers, Gravity
Fillers or Pressure Fillers at will.

**ROBERTS' PATENT
FILLING MACHINE CO.**

33 Roundcroft Street, BOLTON, LANCs.

All rights reserved.



Always makes a hit

You don't have to worry about selling FLIT, it's the fastest selling household insecticide on the market. A sales sensation last year. In even greater demand this year! FLIT sells on sight. Experience proves that nothing sells insecticides like advertising, and FLIT advertising campaign is the biggest ever run on a household insecticide. No matter where you

are located, you will feel the effect of FLIT advertising.

To display FLIT is to sell FLIT. Everybody knows FLIT. A fast repeat-seller and a known profit-maker.

Put FLIT where your customers can see it . . . pick it up . . . and pay you for it.

In four sizes	List per doz.	Retail Selling Price
8-oz. tins with free mouth sprayer	17/-	2/-
16-oz. tins	25/6	3/-
Combination set (16-oz. tin and FLIT hand sprayer)	42/-	5/-

In four sizes	List per doz.	Retail Selling Price
32-oz. tins	42/-	5/-
128-oz. tins	143/-	17/-
FLIT hand-sprayers	19/-	2/3
Special FLIT continuous sprayers	45/-	5/6

FLIT

REGISTERED TRADE MARK

DESTROYS

Flies Mosquitoes Moths Midges
Ants Wasps Bugs Fleas Cockroaches



"The yellow tin
with the black band"

Write for special **FREE GOODS OFFERS** for **WINDOW DISPLAYS**.

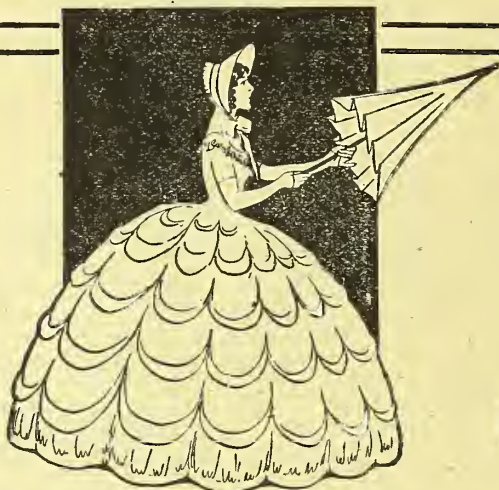
Distributors:

ANGLO-AMERICAN OIL CO., LTD., Albert Street, Camden Town, N.W.1

Telephone: Hampstead 8066.

Telegrams: "Nufinjol, Norwest, London."

1878



1928

WHITAKER'S JUBILEE Great Window Dressing Competition

For "LUTON" and "AURORAL" Dyes.

1st PRIZE 100 Guineas	2nd PRIZE 50 Guineas	3rd PRIZE 25 Guineas
AND 20 PRIZES OF 5 GUINEAS EACH		

'LUTON'**STRAW HAT DYES.**

The outcome of 50 years' accumulated experience in household dyes. All colours and in demand practically all the year round. Highly efficient dyes, and appeal to every woman on economical as well as fashionable grounds. Supplied in dull or glossy series.

AURORAL**COLD WATER DYES.**

Just the thing for Dance Frocks and Dainty Lingerie.

Good trade should be done in this line now by recommending it to your customers. The finest cold water dyes in the world for delicate and costly fabrics. Good results obtained even at the first trial. A certain seller.

CONDITIONS OF COMPETITION

All Window Shows must be put in between now and June 30th, 1928, and remain on exhibition for a period of not less than seven days.

The Display can be made to advertise exclusively "Luton" Straw Hat Dyes or "Auroral" Cold Water Dyes, or, if preferred, a combination of both.

Each scheme must represent the competitor's original ideas and each entrant must provide his own materials. N.B.—The Standard "Auroral" Window Show must not be used for this competition.

For the purpose of entering the competition all Competitors must secure a photograph of their Window with their name and address written plainly on back and submit it, together with a covering letter, indicating when the Display was given.

All entries must be received by Whitaker & Co., Kendal, not later than SATURDAY, JULY 7th.

The list of Prize Winners will be announced in the editions of the "Pharmaceutical Journal" and the "Chemist and Druggist," published on July 28th.

No correspondence can be entered into with regard to the above Competition and the judges' decision must be accepted as final and binding on all competitors. The receipt of each entry shall be regarded as acceptance of the above.

'LUTON'**HOT WATER FABRIC DYES.**

The best hot-water dyes for all materials, giving perfect results with the minimum of trouble. As with all other Whitaker products, they show a good profit.

VELT**THE NEW CLEANER.**

A cleansing preparation for removing stains, grease, dirt, etc., from clothing, upholstery, curtains, etc., and renovating them. VELT is a non-inflammable liquid and is supplied in screw tins, of which three dozens are contained in an attractive outer. A Whitaker product, which is selling well. It is available in 5-oz., 10-oz. and 20-oz. tins for the convenience of bigger users.

We cordially invite all Chemists to pay a visit to our Stand at the Chemist's Exhibition, Holland Park Hall, London, May 7th-11th

WHITAKER & CO., Dye Specialists for Chemists, KENDAL

Telegrams: "Dullette, Kendal."

Established 1878.

Telephone 214.

London Office and Showrooms: 16-18 BEAK STREET, REGENT STREET, W.1

Telephone: Regent 3825.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

MAY 5, 1928.

This Supplement is inserted in every copy of The Chemist & Druggist.

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation.

1.—LONDON, S.E. (Shopping Thoroughfare).—Neglected Business, offering scope for considerable extension; returns last year £2,850; handsomely fitted shop; held on lease; further details on application.

2.—LONDON, S.E.—General Retail and Dispensing Business, with N.H.I. and Kodak Agency; returns, present rate, £20 weekly, under management; scope for increase under personal supervision; double-fronted lock-up shop, well fitted and stocked; rent 30s. weekly; held on lease; price about £400.

3.—CROYDON (Near).—Good-class Retail Business in residential district, with Post Office attached; returns average £1,400; gross profit 38%; single-fronted shop, well stocked; comfortable house; 21 years' lease; rent £46; price £1,050.

4.—MIDDLESEX (Suburban).—General Retail and Dispensing Business with N.H.I.; established many years; returns between £750 and £800 per annum at good prices; single-fronted shop; stock and fixtures estimated at £650; good house with bathroom and back entrance; rent £35; held on lease; price £675.

5.—LONDON S.W.—General Retail and Dispensing Business with Kodak Agency; returns £1,100 per annum, plus N.H.I. (about £80 yearly); net profit £300; single-fronted shop; small house, with bathroom and garden; rent £43 per annum; price £800, or near offer.

6.—Family Retail and Dispensing Business with N.H.I.; returns approach £1,600 at good prices; rent £80; held on lease; good house, with garden and side entrance; terms, valuation of stock and fixtures and a sum for goodwill to be agreed, or a lump sum offer entertained.

7.—HANTS COAST.—Neglected Business, in main road of well-known town; returns £1,400, with scope to materially increase; nicely fitted shop; two flats sub-let to show profit rental; 14 years' lease; further details on application.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—KENT.—Old-established Country, Retail and Dispensing Business, with Agricultural; returns last year £4,142; gross profit, £1,326; large, lofty shop. very well fitted and stocked; rent £120; 21 years' lease; price £3,300.

9.—EAST COAST HEALTH RESORT.—Cash Retail and Photographic Business; returns last year exceeded £1,200; this year (with good season) should be materially increased; net profit roughly £350; estimated value of stock and fixtures £850; lock-up shop; flat optional; good position in main road; price £800.

10.—YORKSHIRE.—Cash Retail Business; returns last year £1,400; net profit £400; single-fronted shop; stock and fixtures estimated to be worth between £600 and £700; lock-up shop, or with flat if required; price £700, or valuation terms entertained.

11.—SOUTH DEVON.—Business and Branch for disposal; returns last year about £2,250, with net profit about £450; combined rentals £105; estimated value of stock and fixtures £1,200; price for the two businesses £1,400.

12.—SUSSEX.—General Retail and Dispensing Business, with Kodak Agency; returns £1,450; net profit £560; audited accounts; scope for increase in Agricultural; double-fronted shop; house and small garden; moderate rent; further details on application.

13.—SOUTHEAST (near).—Modern General Retail Business, with Kodak Agency; returns £30 weekly, with scope for Optical; double-fronted shop, fitted in oak and fully stocked; flat over pharmacy with bathroom; held on lease; price £1,100, or goodwill £250, plus valuation of stock and fixtures.

14.—SOUTH COAST.—Good class Family Retail and Dispensing Business; progressive turnover, last year being £1,900; net profit £467; double-fronted shop, fitted in oak; well stocked; convenient residence; small garden; no near opposition; price of business £1,200; property must also be purchased.

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such service.

Valuations for Stocktaking

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

AGENCIES.

AGENT required, with first-class connection, for sale of Hygienic Rubber Goods (Teats, Gloves, Mackintosh Sheets, Preservatives and made-up goods). Write Box 50, c/o Cowies, 17 Gresham Street, London, E.C.2.

AGENCIES WANTED.—Agent, residing in London, wants a reputable house for Germany, Holland, Belgium, etc.; he is well introduced to leading Druggists' Wholesalers; first-class English references. P.C.B. 21/130, Office of this Paper.

GENTLEMAN, well known in Retail trade, London and South Coast, 17 years Representative for Wholesale Manufacturing House, desires one or two good Agencies, English or Continental (not unadvertised toilet lines); open to consider investment in established business, with view to Partnership. P.C.B. 22/24, Office of this Paper.

PURCHASING Agent required, with wide experience Surgical Dressings, etc. essential; age 27-35. Apply with full particulars to Laurie & Co., Employment Specialists, 28 Basinghall Street, E.C.2. No preliminary fee.

PARTNERSHIP.

GERMAN, qualified Chemist, 42, married, with good international experience, speaks English and French fluently, seeks Partnership in England, Switzerland or elsewhere; £2,000 at disposal. Write to 88/27, Office of this Paper.

PREMISES TO LET.

CASTLEFORD.—To Let, large Shop in main business street, suitable for a Chemist. Apply Beedel, Auctioneer and Valuer, Bank Street, Castleford.

WINCHMORE HILL.—Excellent position in main road, with trams and buses passing the door and in centre of rapidly developing district; lock-up shop eminently suitable for high-class Chemist's; rent £100 per annum. Apply Dabbs, 66 Stamford Hill, N.16.

SNIP.—Shop, Parlour, Yard and Shed; Kilburn; inclusive rent £1 6s. per annum; £500 for ten years' lease, equivalent to £1 weekly, and worth treble; no opposition; should take £60 from opening. Write "W." 93/18, Office of this Paper.

APPRENTICE WANTED.

APPRENTICE wanted; good opportunity for intelligent youth; passed Preliminary preferred. W. Jones & Co., 134 Southampton Row, W.C.1.

FINANCIAL.

OWNER of several Drug Stores, having offer of Chemists' Business, seeks Qualified with small capital to manage same; proposition open to any investigation; offers better security to beginner than opening on own account with limited capital. Write 93/20, Office of this Paper.

The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer and Valuation Department

Head Offices—Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant and Valuer. Phone: City 1261-2-3

BUSINESSES FOR DISPOSAL

1.—**SUSSEX**.—For immediate disposal, old-established Business, in prominent position; double-fronted shop; held on lease, with 10 years to run; good living accommodation attached; price asked, lease and goodwill, £500; fixtures and fittings, £200; stock approx. £400. Further particulars on application. (154)

2.—**SHEFFIELD**.—Small Business for immediate disposal. Premises consist of two shops communicating; good windows; living room, scullery, two bedrooms and attic, held on monthly tenancy at £45 p.a.; returns approximately £15 p.w.; room for increase; price £350. (145)

3.—**BRIGHTON**.—Retail Dispensing Business; premises consist of single-fronted shop; 15 ft. frontage, with dispensary and large basement; held on lease 17 years at £52 p.a. inclusive; returns average £20 p.w.; can be increased. Full particulars on application. (147)

4.—**LONDON, S.W.**—Two small Businesses for immediate disposal; one in good position on main 'bus and tram route; premises held on lease, 16½ years to run; rental £2 7s. 9d. p.w. Takings approximately £765; can be increased under personal supervision. Further Business situate in thickly populated working-class district, with good possibilities for owner manager; premises held on lease, 16 years to run at rental of £60 p.a.; dwelling accommodation sub-let £65 p.a.; turnover approximately £1,090. Full particulars on application. (151)

5.—**LONDON, E.**—Drug and Photographic Business, for immediate disposal; on lease, 15 years to run, at rental of £120 p.a.; double-fronted shop, with good living accommodation attached; side and back entrance. Further particulars on application. (156)

6.—**LANCS.**—Old-established Chemist's Business, with Post Office attached; held on quarterly tenancy; lease might be obtained, or property purchased for £1,200; returns, £15 per week, all cash; rent, £78 p.a.; living accommodation; price asked, £750. Full particulars on application. (142)

7.—**NORTH-WEST DISTRICT**.—Family Retail Dispensing Business; double-fronted corner shop, with room at rear; flat with side entrance, consisting of three rooms; two garages; held on lease 12 years at £140 p.a.; flat let off at £103 p.a.; returns average £20 p.w.; can be increased. Full particulars on application. (146)

8.—**BLACKBURN**.—Drug Stores in main thoroughfare, on lease, 7 years to run, at £60 per year; returns, £18; large lock-up shop, with excellent window; stock about £250. Offers invited. (140)

9.—**DORSET**.—Old-established Family Retail Dispensing Business; returns £1,800 p.a., all cash; owner retiring; large shop, fitted mahogany; well stocked; good house attached (at present let at £110 p.a., lease expires October next); property for sale, with business open to offer. Further particulars on application. (153)

10.—**CAMBRIDGESHIRE**.—Old-established high-class Dispensing and Retail Business; held on advantageous lease; well fitted and large stock carried; returns approximately £3,000, at good profit; excellent living accommodation; every investigation invited. Full particulars on application.

11.—**LEEDS**.—Family Retail and Dispensing Business in thickly-populated working-class district; corner position; good opening for Chemist-Optician; dwelling accommodation attached; returns over £1,000; rent £52 per annum; price for quick sale £350. Full particulars on application. (155)

12.—**BERKS.**—Established Pharmacy; lease 6 years to run, with promise of renewal 14 or 21 years; rent £46 p.a.; large 7-roomed house attached; garden and garage. Further particulars on application. (157)

13.—**LONDON, S.W.**—For immediate disposal, Retail and Dispensing Chemist's Business, held on lease, 33 years to run at ground rent £4; conveniently fitted and stocked; turnover approximately £1,050 per annum; room for scope and increase under personal supervision. Full particulars on application.

14.—**CAMBRIDGE (Near)**.—Old-established Pharmacy, on lease 20 years at £50 p.a.; returns average £13 per week; double-fronted shop, with good dwelling accommodation. Further particulars on application. (131)

15.—**CHESHIRE**.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week; full particulars on application.

16.—**LINCOLNSHIRE**.—General Retail Dispensing Business in market town, with excellent living accommodation; established over 60 years; nearest opposition 5 miles away; takings over last 3 years average £1,640; net profit, 25 per cent; stock about £350; rates very low; wine and spirit trade; Kodak Agency. Further particulars on application. (141)

17.—**LONDON, S.W.**—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management; full particulars on application. (148)

18.—**DONCASTER**.—For immediate disposal, Family Retail Dispensing Chemist's Business, with up-to-date, well-fitted Ladies' Hairdressing Salon on first floor with all latest appliances; business well stocked; large store rooms; turnover approximately £3,500 p.a.; premises can be had on lease, 5 years at £350 p.a. Full particulars on application.

BERDOE & FISH

VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—**HERTS.**—Good-class Light Family Retail in growing residential district; unopposed; returns £1,800; excellent profits; modern pharmacy and house; good stock; price £1,500.

2.—**SOUTH COAST**.—Good-class Retail, with Kodak Agency, showing steady increase; returns £1,900; commanding main road position; long lease; fully stocked; price £1,100.

3.—**TUNBRIDGE WELLS (Near)**.—Unopposed good Country Business; pleasantly situated; returns £1,450; books audited; nice house; low rent; on lease; fully stocked; price £1,150.

4.—**LIVERPOOL**.—Good-class Light Retail, returning £872; plenty of scope; splendid house; lease granted at low rent; fully stocked; price £595.

5.—**EAST COAST**.—Unopposed Light Retail, with Kodak Agency; returns £1,750; net profit £455; well-fitted shop; convenient house, bathroom, and private entrance; price, including freehold, £1,600, or close offer.

6.—**WYE VALLEY**.—Sound, Light Cash Retail Business, in good market town; returns last year about £1,300, under manager; plenty of scope; excellent house and premises; low rent; price for quick sale £800, or valuation; worth attention.

7.—**MIDLANDS**.—Sound Country Business; pleasantly situated in small market town; returns £885; net profit £350; low rent; stock and fixtures worth price asked, £500.

8.—**WESTCLIFF-ON-SEA (Near)**.—Sound Light Retail, Dispensing and Photographic; returns about £1,850; good unopposed position; growing district; modern house and pharmacy; price £1,150, or valuation terms arranged.

9.—**LONDON, S.W.**—Good middle-class Cash Business, in main road position; returns average £45 weekly, under manager; lock-up shop; well fitted and stocked; price £1,450.

10.—**WEST LONDON**.—Cash suburban Drug Stores; same hands many years, retiring; returns £727; splendid scope for qualified; low rent; on lease; house attached; price £425.

STOCKTAKING VALUATIONS.

We have a few dates still open for May and June, and invite early applications for terms.

Established 1870.

Telephone: Terminus 3574.

ERNEST J. GEORGE

CHEMISTS' VALUER AND TRANSFER AGENT

FOR A NOMINAL FEE WILL VALUE YOUR STOCK, PREPARE OR AUDIT ACCOUNTS and DEAL WITH ALL INCOME TAX MATTERS

3 ST. PAUL'S CLOSE, WALSALL. Tel. 774.
34 Marksbury Av., RICHMOND, SURREY. Tel. 2210.

BRETT & CO.

All valuations have the personal attention of F. J. Brett, M.P.S.

TRANSFER AGENTS AND VALUERS,

20 SPRINGFIELD RD., LEICESTER. Telephone: 1934

BUSINESSES WANTED.

Number of Buyers with Cash Ready in most districts.

CHARLES E. NAYLOR

CHEMISTS' VALUER AND TRANSFER AGENT

Has businesses for disposal in Leeds, Bradford, Blackpool, Newcastle, etc., for further particulars write to—

170 VESPER ROAD, KIRKSTALL, LEEDS

Phone: HORSFORTH 324.

CHARLES C. MARSDEN

Valuer, Transfer Agent & Stocktaker

44 SHOLEBROKE VIEW, LEEDS.

STOCKTAKING VALUATIONS AT SPECIAL REDUCED TERMS

Chemist's own stock sheets priced out at low rates

Recommended and approved by Messrs. Goodall, Backhouse & Co., Hirst, Brooke & Hirst, Ltd., & Raimes & Co.

Agent for the GREENWATT PLANE, 3/6 each, post 3d.

BUSINESSES FOR DISPOSAL.

BIRMINGHAM.—Main road Business, beautifully fitted Spanish mahogany; last 3 years, £1,200 to £1,400; good profits; easily worked single-handed; turnover increase suitable hands; rent £65; rates £34; 4 rooms let off 23s. weekly; N.H.I., Kodak, Universal Agencies; saleable stock, about £350; buying country business. Genuine buyers, what offers? 94/23, Office of this Paper.

BLACKPOOL.—Chemist's Business, with Photographic Agency; old-established shop; excellent position; large turnover; substantial profits; shop well fixtured and stocked; £800. Ford & Rimington, 59 Wellington Road South, Stockport.

BOURNEMOUTH DISTRICT.—Progressive, good-class Family and Dispensing Business for Sale; moderate size, double-fronted shop, well fitted in heavy oak fittings and suitably stocked; returns about £1,900; Kodak Agency; no opposition; freehold must be purchased for £1,500; house sub-let on weekly tenancy, 35s. per week; price of business by arrangement; owner purchasing larger concern. 87/2, Office of this Paper.

BRIDLINGTON (E. YORKS.).—Sound Business for quick Sale (Chemist's and Drug Stores); death vacancy; established 20 years; stock (up to date) and fixtures at valuation; receipts £1,600 per annum; Kodak and Specialties Agencies. Genuine buyers apply to Townsend, Solicitor, Bridlington.

DUNFERMLINE.—In consequence of the death of Mr. Robert Robertson, Chemist, Moodie Street, Dunfermline, the Business carried on by him is to be disposed of with immediate entry, along with the shop and dwelling-house above. Purchaser will take stock and shop fittings at valuation. Inspection at any time. Offers to be made to the subscribers by 22nd inst. —Stenhouse, Husband & Reid, Solicitors, Dunfermline.

EAST MIDLANDS.—Unique opportunity, old-established Retail and Dispensing Chemist's Business in country town; N.H.I., Kodak and Veterinary; good agricultural district; returns £1,300; valuation terms only asked; lock-up premises, conveniently fitted and stocked; sale or easy tenancy; good house available near business. Full particulars on application. 94/4, Office of this Paper.

EASTERN COUNTIES.—An old-established Country Business; unopposed; returns average £1,000; good house and garden; small garage; price, business and property, £1,300, or near offer. Full particulars, 90/29, Office of this Paper.

LANCs.—Well-established Retail and Dispensing Chemist's Business; lock-up premises held on lease; conveniently fitted and stocked; turnover approximately £2,000 per annum; price £1,600. Full particulars on application. 95/10, Office of this Paper.

LANCs.—Old-established Pharmacy, busy main road, Manchester, commanding corner position, good shopping area; double-fronted, modern fitted mahogany and plate glass, 2 large windows; Kodak Agency; splendid opening B.O.A. man; good N.H.I.; over 50 years established; turnover £2,500; several widely known specialities, two registered; well stocked; accounts audited; full particulars to genuine buyers; £3,500 for business and premises. 82/37, Office of this Paper.

LONDON SUBURB (Essex).—Splendid opening for a live man, General, Dispensing, Prescribing own specialities; photography; 10 years' lease to run (part let off); returns average about £600 a year; can easily be doubled; offers invited; ill-health makes immediate sale necessary. 13 Coniger Road, Parson's Green, S.W.6.

LONDON, S.W.—Compact, profitable, medium-class Business, easily worked; Dispensing, Kodak Agency; living accommodation; suit recently qualified or elderly gentleman; total weekly overhead expenses 15s.; turnover £1,100; worth attention; price by arrangement. "Genuine," 92/10, Office of this Paper.

LONDON, S.W.—Good old-established Business for disposal immediately; average turnover for past 3 years over £2,000; shop with good living accommodation over, with separate side and back entrances; goodwill £1,050; stock £500; fixtures and fittings £300; lease 7, 14 or 21 years at £150 per annum, or leasehold 53 years; ground rent £15 per annum; may be purchased for £1,550. Apply "P. C. B.," 22/26, Office of this Paper.

LONDON WEST SUBURB.—Recently-established Business, with Kodak and Rexall Agencies, N.H.I.; splendid opening for smart Pharmacist with Optical qualification; double-fronted shop, finely fitted; good living accommodation, with separate entrance; business increasing; neglected owing to proprietor having other interests; sound proposition for man who can devote full time to develop; long lease; £1,750 for lease, fixtures and goodwill, stock valuation. Further particulars apply 93/27, Office of this Paper.

MANCHESTER.—Wealthy residential suburb, main road, best position, high-class, old-established Light Retail, Toilet and Dispensing Business, with good Photographic connection (Kodak Agency); well stocked and fitted; easily worked; satisfactory returns; very profitable; every investigation welcomed; also premises with comfortable modern house; electric light throughout; owner retiring; capital required £2,500 net; mortgage on premises if desired; bank reference with all inquiries. 93/35, Office of this Paper.

NEAR MANCHESTER.—Unopposed Shop in thickly populated district; returns £700; N.H.I.; Kodak Agency; large increase possible; price £500. 83/21, Office of this Paper.

NOTTINGHAMSHIRE.—To store and multiple shop proprietors and co-operative societies, modern Chemist's Business and property for Sale, situate 4 miles from Nottingham Market Place; good business; scope for great increase; freehold property in best position; right in the main suburban shopping centre. Further particulars from 89/1, Office of this Paper.

SCOTLAND (Perthshire).—Chemist's Business; established 1911; no competition; turnover approximately £1,000, with well-fitted and stocked shop and comfortable house attached; good summer trade; scope for increased trade; low price for immediate sale. Apply J. & A. Hastie, S.S.C., 43 York Place, Edinburgh.

SOUTH-EAST LONDON (main road).—Old-established Business for disposal, returning £3,000 per annum. Apply "Radio," 125/365, Office of this Paper.

SOUTH YORKSHIRE.—Good Prescribing and N.H.I. Dispensing Business; main street; returns average £27 weekly; large single-fronted shop; lock-up; rates and rent 16s.; lease; house if required; fixtures, utensils, goodwill, etc., £250; stock at valuation, about £400; splendid opening for Optics; good reason for disposal to genuine inquirers; plenty scope. 89/35, Office of this Paper.

SOUTH YORKS.—Branch Business; returns £650, under management; well fitted and stocked; lock-up shop; low rental; main road; Kodak Agency; genuine; progressive; suit new beginner; satisfactory reasons for disposal; price £350. 90/12, Office of this Paper.

WEST OF ENGLAND.—Village Pharmacy, with Kodak Agency; returns last year average £17 per week; rent and rates £45; living accommodation; nearest opposition 6 miles; price £650, or near offer; excellent opportunity for live man. Further particulars on application. Apply 90/33, Office of this Paper.

YORKSHIRE.—Branch Business; returns £1,250 under manager; genuine concern; no side-lines; valuation stock and fixtures about £750; very favourable lease would be granted; fine site, with good living accommodation. 83/22, Office of this Paper.

A SOUND, progressive Dispensing and Photographic Business in the West Riding of Yorkshire is offered for immediate disposal; good opening for Optics; established nearly 50 years; 25 years with late proprietor; Agencies, Rexall, Kodak; turnover just short of £2,000 and good profits; excellent D. & P. connection and good local Proprietaries; price and stock at valuation upon receipt of genuine private inquiry. 94/2, Office of this Paper.

BUSINESS for Sale on Surrey border, 30 miles from London; turnover last year £960, now averaging £96 per month; rent £40 per annum, rates £10; living accommodation; roomy shop, well stocked and fitted; price £575. 82/26, Office of this Paper.

BUSINESS for Sale near Manchester; premises on lease at low rental; takings, including N.H.I., over £900 per annum; profit £6 to £6 5s. a week; good living accommodation; well stocked shop; price £475. Apply 92/40, Office of this Paper.

DRUG Stores in working-class district, taking £18 per week; no opposition; three doctors close by; good opening for N.H.I.; price £375; 21 years' lease. Apply "T. A.," 64 New Road, Battersea, S.W.8.

NEIGHBOURHOOD of Bournemouth, comfortable little Business making a profit of about £6 a week; well stocked; price £850; good modern house attached to same, with garden and room for garage; price £1,150; could be purchased through a building society. 93/6, Office of this Paper.

OPPORTUNITY for energetic person to work up neglected Pharmacy, opened as branch, but neglected under present management; busy district in West Riding; cash takings at present £13 weekly; N.H.I. 400 per month; capable of doubling; no opposition to worry about; smart shop, two windows, electric, basement; good saleable stock and modern fittings; 10s. week clear; only needs seeing; good reason for disposal; price about £500, or best offer after viewing; genuine buyers only. Curiosity mongers don't waste stamps. 88/40, Office of this Paper.

OPPORTUNITY for energetic Pharmacist, West London Pharmacy in busy main thoroughfare, adjoining multiple shops; double-fronted shop, nice fittings, up-to-date stock; working and middle-class district; long lease; low rates and rent; 6 rooms, side entrance; owner going into Wholesale; price £725, or near offer. 93/19, Office of this Paper.

PHARMACY, high-class, with modern house, built 12 months ago, in rapidly growing residential district 17 miles N. London; population already nearly 3,000 and increasing; freehold property with big garden; good Prescribing and Dispensing; first year's average £15 weekly; property, must be sold, £1,250; stock, fittings and fixtures at valuation. 90/20, Office of this Paper.

VILLAGE Business, Family Retail, Photographic, Wireless; rent and rates £60; electric light and gas; lock-up shop; population 3,000, with increasing residential area; nearest opposition 3 miles; could add Stationery and Optics; turnover £1,500; 20 miles from town; lovely country district; price £750. 90/34, Office of this Paper.

£330 OR NEAR.—Poplar East Coast Resort. Unique opportunity for acquiring genuine high-class Retail; been neglected; lock-up, back room; good position, poplons locality; nicely stocked; solid oak fixtures; moderate rental; returns about £750; splendid chance for live man; good opening Photography and Optics; proprietor disposing for health reasons. "Opportunity," 92/33, Office of this Paper.

£350, NO OFFERS.—Herbal and Health Food Stores; no serious opposition; D.F. shop, main road; good house and garden; seaside, Essex; e.l. throughout; season just commencing; lease; illness cause; well fitted and stocked. "Delta," 93/16, Office of this Paper.

LEGAL NOTICE.

NOTICE IS HEREBY GIVEN that the Partnership heretofore subsisting between us the undersigned Lancelot Cressel Portway and Arthur Joseph Allen carrying on business as Photographers at Numbers 8 and 9 High Street, Egham in the County of Surrey under the style or firm of The Thames Valley Photographic Service was dissolved as and from the 25th day of March 1928 by mutual consent. All debts due to the said late firm will be received and liabilities discharged by the said Lancelot Cressel Portway who will continue to carry on the business under the style or name of "The Thames Valley Photographic Service."

Dated the 28th day of April, 1928.

L. C. PORTWAY.
A. J. ALLEN.

SITUATIONS OPEN.

RETAIL.

[HOME.]

BATH.—Young qualified Junior Assistant, chiefly for Dispensing; must have had good Dispensing experience and some knowledge of Photographic trade; state age, salary required, references. Applications not replied to in three days respectfully declined. Charles Jenkin, Chemist, Bath.

BIRMINGHAM.—Exceptional opening for a smart, qualified Manager; must be up to date and alive to the needs of a passing trade; good salary and commission to the right man. "B," 90/600, Office of this Paper.

BRIGHTON.—Lady Assistant; outdoors; hours 9 to 8, Saturdays 9 to 9; must be accurate Dispenser and capable at Counter. Please give full particulars, age, height, salary required and experience, and enclose photo. E. R. Jones, 12 Matlock Road, Brighton.

KENT.—Lady Assistant (Minor qualification) required; must have had good Counter and Dispensing experience; permanency if satisfactory. State age, experience and salary required. "Kent," 90/6, Office of this Paper.

LIVERPOOL.—Qualified lady wanted as Superintendent (working-class district). State all particulars and salary (which must be moderate) to 93/12, Office of this Paper.

LIVERPOOL AREA.—Qualified lady or gent.; easy hours; Insurance Dispensing and Counter; salary £3 a week and good commission on all takings over £10 per week. 94/11, Office of this Paper.

LONDON.—Qualified Manager, married, required for Light Retail, Dispensing and Photographic business; good opportunity for a really smart, energetic man wishful to make progress. 90/60, Office of this Paper.

LONDON SUBURB.—Qualified lady; must be a quick and accurate Dispenser and experienced Saleswoman, with pleasant manners; middle-class business with Photography; comfortable permanency to right applicant. 90/13, Office of this Paper.

LONDON SUBURB.—Capable, unqualified Junior Assistant required immediately. Apply, stating experience, references, salary required, and enclosing photograph (to be returned), P.C.B. 22/20, Office of this Paper.

LONDON.—Reliable Assistant required (gentleman) for Drug Department; must be qualified. Apply, personally, Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

LONDON, W.—Permanent qualified Junior Assistant (male) required 29th inst.; age about 23; must be capable Dispenser and Counter-hand. State particulars of experience, age, height, and salary required to J. F. Harrington, 15 Kensington High Street, W.8.

LONDON SUBURB.—Qualified Manager, good appearance and address, age 35-40, for small family business; must have Photographic experience and be able to make an attractive window display; good living accommodation available. 125/365, Office of this Paper.

LONDON, S.E.—Young qualified lady or gentleman to manage small Branch for company; investment about £150 desired, for which triple security given (not shares); salary about £3 10s. and commission; living accommodation for single person might be arranged. 93/200, Office of this Paper.

LONDON, N.1.—Assistant, unqualified, required for holiday relief duties, from June 1 to 23 inclusive; must be smart, honest and obliging; well up in Photographic work (not D. & P.) and Dispensing. Apply, with references, to 94/9, Office of this Paper.

MIDLANDS.—Qualified lady or gentleman required for middle-class business on May 21. Send copies of references, photograph, also state age and salary expected, to 90/32, Office of this Paper.

SHEFFIELD.—Qualified; about 30; outdoors; no Sunday duty; must have knowledge of Photography. Please give full particulars (letter only) of experience, age, height, salary required, when disengaged, to H. G. Williams, 118 The Moor.

SOUTH ENGLAND.—Qualified; age 45 to 50; house attached. Apply, stating wages required and when at liberty. Apply 90/1, Office of this Paper.

SOUTH KENSINGTON.—Vacancy for smart Dispenser used to good-class Family business and Photo; age 25; good appearance necessary. Write A. Tennant, 29 Sussex Place, S.W.7.

A BRANCH Manager, South Devon Coast; age 30-40 years; must have previous experience as Manager. Full particulars and photo. 125/368, Office of this Paper.

ASSISTANT, young, unqualified, gent. or lady, for Dispensing, Stock and Counter. Full particulars in first letter, or interview by appointment. Phone No.: Willesden 4456. Maurice Jones, 204 Church Road, Willesden, N.W.

ASSISTANT required; age 21 to 28; good Dispenser, Window-dresser, and accustomed to Photographic business. Give details of experience, references, salary required, etc. John Stanley, M.P.S., Chemist, 10 Clarendon Road, Harrow, Middlesex.

ASSISTANT, male, unqualified, for good-class business in London suburb; refined and of smart appearance; competent Dispenser and Counterman essential; fortnight's holiday before October next; experience, state fully. 93/70, Office of this Paper.

COUNTER Assistant for the season (referred or unqualified); good Salesman, Window-dresser; must have Photographic knowledge. Please state references and wage required (outdoors). Thorp, Chemist, Bognor.

JUNIOR Assistant required for good-class Dispensing and Photographic business; good references essential. Apply Stewart, Bracknell, Berks.

JUNIOR or Improver (male) wanted at once; North London. Apply 93/22, Office of this Paper.

KENDALLS, Chemist, York, require a smart lady Counter-hand; must be energetic, experienced Window and Case Dresser; knowledge of Cameras, Photographics (no D.P. work). Write fully, photo.

LADY or gentleman Pharmacist required to manage branch; must be capable, energetic, and not afraid of work, with knowledge of Display and Photographics. Please send photograph, with full particulars as to age, experience, when disengaged, etc. Thornbers, Accrington. Phone 2760.

LADY Assistant required, preferably qualified; Dispensing and Counter; good-class business in residential district within easy reach of London. Send full particulars to 88/29, Office of this Paper.

LADY Dispenser; Minor qualification; permanency; occasional Counter; good-class business, within easy distance London and Epping Forest; fortnight's holiday not later end next September; three Scotch lady pharmacists on staff. 93/7, Office of this Paper.

LADY Pharmacist, with experience in high-class Dispensing business, required shortly; age about 30. Please send full particulars and copies of testimonials, also photograph if possible, to 93/26, Office of this Paper.

LOCUM, qualified, for Drug Department, July 2-14 inclusive. Applications, containing details of age, inclusive salary, together with references, to be addressed to the Secretary, Co-operative Society, Ltd., Batley.

LOCUM, unqualified, required from June 4 to June 16. Thomas, Chemist, 52 Ilford Lane, Ilford.

MANAGER, qualified, married, for a small branch in an adjoining town; house attached; Photographic and General; permanency for the right man, who must be reliable and progressive. Bates & Hunt, Wellington, Salop.

PART-TIME Assistant required, Saturdays from 1.30, four other evenings and every third Sunday from 6 to 8; two full-time assistants kept. Apply, stating particulars of age, experience, and salary required, "C. B.," 20 New Street, Dorset Square, N.W.1.

QUALIFIED Assistant, male, age about 23 years, for good-class country business; good Dispenser and Counterman, with knowledge of Photography (D. & P.). Apply 90/35, Office of this Paper.

QUALIFIED Chemists wanted for Yorkshire district. Apply, by letter, with full particulars, to Taylors' Drug Co., Ltd., 16 Boar Lane, Leeds.

QUALIFIED Assistant; young; suit one recently qualified. Apply (by letter) to Bird & Storey, 42 Eastcastle Street, W.1.

QUALIFIED Assistant, male, age about 30, with first-class Retail and Dispensing experience. Apply, with full particulars, experience, age, married or single, salary required, and when free, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

QUALIFIED Assistant, age 27 to 40, for good-class general trade and N.H.I. State age, whether married, experience, salary and references. Improver also required for branch; good Dispenser; hours 9 to 7. Hill & Co. (Chemists), Ltd., Warrington.

QUALIFIED Manager wanted soon for good-class Dispensing business, with Optical department; must have J.C.Q.O. qualification and experience of good-class Counter trade and Kodak sales; undeniable references essential. Give usual particulars in first letter, with photo if possible. 92/57, Office of this Paper.

QUALIFIED Manager wanted (Lancashire) for position of trust. Give full particulars as to experience, age, etc., to 93/2, Office of this Paper.

RELIABLE Junior (male) required for Counter and Dispensing; easy hours; Saturday closing; no Sunday or holiday duty. Apply, with full particulars, to Cater, Stoffell & Forti, Ltd., Bath.

REQUIRED, for Midlands, steady, experienced, unqualified Assistant; multiple shop experience an asset; age no drawback. Apply "J. G. S." 90/15, Office of this Paper.

SURGICAL ASSISTANT.—Young lady required, with experience in fitting Elastic Hosiery and Belts. Apply personally, Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

UNQUALIFIED Junior Assistant, either sex, wanted for General Retail, Agricultural, Chemical Apparatus, Photographic. Apply, with recent photograph and full particulars of experience, age, height, and salary required; good references essential. W. Finlayson, Chemist, 141 High Street, Stockton-on-Tees.

UNQUALIFIED Assistant (male), 20-23; must be quick and accurate Dispenser; conscientious worker; permanency. Please give full particulars in first letter. Applications not answered in four days respectfully declined. W. Wharton, Chemist, 252 Langsett Road, Sheffield.

WANTED, fully qualified lady Dispenser and Assistant (unmarried). Apply, stating qualifications, experience, age, and wages required, to the Co-operative Society, St. Nicholas Street, Worcester.

WANTED, at once, Junior Assistant for branch; permanency; also qualified Assistant for Hospital work during June. State age, height, experience, and salary required, with photo, to Hinton Lake & Son, Ltd., 41 High Street, Exeter.

YOUNG unqualified Assistant of some experience for a good-class provincial town trade; must be active and with sound references. Apply, with fullest particulars, to F. Corfe, Managing Director, Corfe & Son, Ltd., Chemists, Maidstone.

WHOLESALE.

IMPORTANT Manufacturers of well-established and nationally advertised lines have vacancies for energetic Salesmen; must have had experience in calling on Chemists, Ironmongers and Grocers. State age, experience, and salary required. 125/360, Office of this Paper.

REPRESENTATIVES, with good connections amongst Chemists and Hairdressers, required for South Wales, South Coast, also Kent, Essex, Herts, Bucks and Wilts. The Galen Manufacturing Co., New Cross, London, S.E.

REPRESENTATIVES required to work well-known Proprietary Article on commission in Middlesex, Hertfordshire, Bedfordshire, Huntingdonshire, Oxford, Buckinghamshire, Berkshire, Wiltshire and Hampshire; non-competitive lines may be carried as well. Apply 125/361, Office of this Paper.

REQUIRED, for Scotland; Traveller to carry as a side line a well-known and largely advertised brand of Toilet Preparations; payment by commission only; good connection with Chemists and Hairdressers essential. Write, giving all particulars, 125/364, Office of this Paper.

REQUIRED, for Midland Counties, the services of a first-class man to carry as a side line an old-established and well-advertised brand of Toilet Preparations; must have own car and be in a position to obtain displays and command orders; remuneration 10% commission, payable on present and future turnover (retail only). Reply, giving all particulars of lines carried and ground now covered and at what intervals, 125/363, Office of this Paper.

TOILET SPECIALITIES.—Representative required for Wales; the goods are well known on the territory, and a lucrative opportunity awaits a really first-class, experienced salesman who knows the ground well and has unimpeachable credentials. Applicants should submit full particulars of past experience, sales records, terms asked, etc., in first letter to County Chemical Co., Ltd., Birmingham.

TRAVELLERS required to carry additional lines on commission basis, 15 per cent.; only gentlemen already having a good live connection amongst Chemists and the like need apply; not Wales or Ireland. Post full particulars, age, whom representing, ground covered, etc., P.C.B. 22/29, Office of this Paper.

TABLET Maker, experienced, required for London; used to Mixing; qualified man preferred. Write, stating experience, salary and age, P.C.B. 22/22, Office of this Paper.

TRAVELLERS required to take up side-line of wide range of Toilet Preparations on commission only. 92/25, Office of this Paper.

WANTED, in Purchasing Department of large well-known Druggist Sundry House, a young qualified Chemist of good appearance and address; business experience necessary. Apply in first instance, by letter, with photograph, stating qualifications and salary required, to Box 6720, c/o F. Wilson, 101 Hatton Garden, E.C.1.

WANTED, Representative calling on Photographic Chemists in Northern Counties to influence D. & P. work; liberal terms to right man. Please write in first instance to "Scarborough," 92/24, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

BELGIUM.—Large Exporters of Belgian Medicinal Plants desire Representatives; only applications from firms or individuals specialising in this branch of the trade entertained. Etablissements A. Longeval, Deux-Acren, Belgium.

BRITISH COLONIES.—Qualified Chemist, with Optical Diploma, required for British Colony; age 25-30 years; single; commencing salary £420 per annum; free furnished quarters; first class passage out and home; generous leave on full pay. Applicants are requested to state age, experience, and when at liberty to sail. Apply 125/367, Office of this Paper.

FOR CEYLON.—Young man (single) wanted for Drug Department in large stores in Ceylon, with experience as Dispenser and holding Minor Certificate; good Counter experience; 4 years' agreement and prospects for suitable man. Apply in first instance, giving particulars as to age, present and past employment, and experience, to "Ceylon," c/o Deacon's, Fenchurch Avenue, London, E.C.3.

JAMAICA.—Wanted, qualified Chemist and Manager for new business in Jamaica; must have first-class experience and be a good organiser; to a really good man this is an exceptional opening. Apply, giving full experience and salary required, to P.C.B. 21/2, Office of this Paper.

SITUATIONS WANTED.

RETAIL. [HOME.]

A.A.A.—LOCUM; 24; unqualified; 6 years' Dispensing, Counter and Photographic (D. & P. and general) experience; tall; good appearance; interested worker. 90/18, Office of this Paper. Will advertiser please send full address to this office?

A CAPABLE, qualified man; fully experienced, active and competent; permanency or Locum; disengaged. "Chemist," 85 Lancaster Road, Leytonstone, E.11.

A CAPABLE, quick, smart, qualified man; disengaged immediately; 23; tall; good appearance; used to high-class trade; capable Manager; first-class references. "B.Sc.," 250 Elgin Avenue, Maida Vale.

A COMPETENT, qualified Manager or Senior Assistant; 14 years' experience; Locum or permanency; knowledge of Photo, Prescribing, etc. 92/19, Office of this Paper.

APPRENTICE.—Young lady, 18, passed Part I Pharmaceutical Examination, seeks Apprenticeship in Dispensing and Retail; Streatham or Croydon district preferred. Mourant, 17 Dunbar Avenue, Norbury, S.W.16.

A S Manager or Locum; Drug Stores preferred; effective Prescriber; personality; Salesman and keen business-builder; experienced; City, West End and good, fast Counter trade. "G.," 130 Scott-Ellis Gardens, N.W.8.

ASSISTANT; 23; eight years Dispensing, Photographic and Counter experience; season, temporary or permanent. A. Amies, 20 Marmora Road, E. Dulwich, S.E.22.

ASSISTANT; 23; tall; Part I; accustomed to fast Counter (high-class Toilets and Photography) and big Dispensing business; excellent references; town or seaside. "W.," 16 Homcroft Road, Sydenham, S.E.26.

ASSISTANT or Locum; unqualified; age 23; tall; excellent experience; Counter and Photography; references, "L. S. M.," 10 Orb Street, S.E.17.

ASSISTANT; thoroughly experienced; Dispensing, Counter, Photography, Prescribing; energetic; good reference; unqualified. "K.," 62 Blenheim Road, East Ham, E.6.

ASSISTANT requires position, London district; excellent experience at Dispensing and Counter; Photographic knowledge; well recommended. 90/10, Office of this Paper.

ASSISTANT; unqualified; temporary or permanent; experienced and capable; Dispensing, Counter and Photo; good reference. P.C.B. 22/9, Office of this Paper.

ASSISTANT; unqualified; reliable; 20 years' experience; 6½ and 8 years last two references; disengaged. Stevens, 46 Maybury Gardens, N.W.10.

ASSISTANT; tall; 25; qualified; disengaged May 21; good Window-dresser, Photography; excellent references; City or S.E. preferred; interview. H. M. Marschner, 58 Grove Lane, S.E.5.

ASSISTANT, 25, unqualified, desires position; Northern counties preferred; good experience and references; Dispensing and Counter. E. L. Collins, c/o Shields & Warren, Chemists, 7 London Road, St. Albans, Herts.

ASSISTANT; experienced Dispenser, Counter, Salesman; single; middle-aged; unqualified; active and reliable. "Aspirin," 265 Newark Road, Bracebridge, Lincoln.

ASSISTANT; 21; experienced; Blackpool, Manchester; disengaged May 28; reference, present employer. "Salol," 8 Nelson Street, Miles Platting, Manchester.

ASSISTANT; 23; referred subject Part II; disengaged; whole or part-time; good Dispensing experience and good references. "H.," Beaufort Cottage, Thames Ditton, Surrey.

ASSISTANT, qualified, 22, requires post; abstainer; experienced all departments; highest references; locum considered. Sargent, 6 Birchfield Road, Northampton.

ASSISTANT; 22; unqualified; 6 years' experience; Dispensing, Counter, Windows, Photography; full time, part time or locum; disengaged. Temperton, c/o 5 The Parade, Riverhead, Sevenoaks, Kent.

ASSISTANT, age 19, 5 ft. 11 in., London Matric. Examination, 3 years' London Retail experience, requires summer situation at seaside resort. J. R. James, 388 Uxbridge Road, W.12.

ASSISTANT, referred Part I, desires position for summer; seaside or health resort; any locality; 5 years' experience. Cooke, 15 St. Barnabas' Road, Sheffield.

ASSISTANT; 24; referred Materia Medica; 5½ years' London and provincial experience; Locum or permanency; good references. Morgan, 25 Tregothnan Road, Stockwell, S.W.9.

ASSISTANT; 22; experienced; accurate Dispenser; highest references; smart Salesman; relief, season or otherwise. Watson, 15 Granville Road, Harrogate.

ASSISTANT; 27; all-round experience, busy Retail, Dispensing, Windows, and all Photographics; Southern Counties or London preferred; unqualified. 93/32, Office of this Paper.

ASSISTANT; 34; height 5 ft. 8 in.; good appearance and address; well up Retail, Dispensing and Photographic; first-class Counterman and Window-dresser; London and provincial experience. "Veronal," 94/16, Office of this Paper.

AT liberty; Chemist, registered; experienced man; Locum or part-time; moderate salary. "Pharmacist," 13 Disraeli Road, W.5.

CONSCIENTIOUS, hard-working and thoroughly reliable Chemist's Assistant desires position of responsibility on the South Coast or in the country; splendid organiser and possessing strong business abilities; married; 32 years of age; resident South Coast. 92/9, Office of this Paper.

COUNTERMAN, Dispenser, Window-dresser, Truss Fitter; 10 years present berth; free May 12. "Unqualified," 51 Norlington Road, E.11.

DISPENSER (Hall Certificate).—Young lady requires post, town or country; also able to drive car and keep books. Heppell, Rose Villa, Thorp Road, Weeley, Clacton-on-Sea.

DISPENSER-BOOK-KEEPER (lady), Hall, with Hospital and Surgery experience, desires post with Doctor, Institution or Chemist; tall; matriculation. 93/9, Office of this Paper.

EXPERIENCED man, revising Part II; full or part time work required; good Salesman and Dispenser; capable of taking charge; well recommended; free. "H.," 159 Acre Lane, S.W.2.

EXPERIENCED lady Dispenser (Hall); good Counter experience; temporary or permanent; country or seaside preferred. 90/3, Office of this Paper.

EXPERIENCED, Unqualified Assistant, 26, desires permanent post; Birmingham district preferred, not essential; brisk trade preferred; married; ten years' experience; Counter, Dispensing, Window-dressing, Photography (counter, workroom). 94/7, Office of this Paper.

JUNIOR, disengaged, desires situation; 3 years' apprenticeship; Counter, Dispensing and Photographic experience; 5 ft. 10 in.; energetic. Thomas, 57 Killigrew Street, Falmouth.

JUNIOR, Part I, seeks post; Lancashire or Westmorland preferred; five years experience, with Photography; willing worker. H. H. Watts, 32 King Street, Stretford.

JUNIOR or Improver; lady; unqualified; Hall Certificate; Dispensing experience; whole or part time. 93/24, Office of this Paper.

LADY Assistant (Hall Certificate); 7 years' experience; Counter, Dispensing, Books; smart and reliable. 90/28, Office of this Paper.

LADY Assistant, Scotch, unqualified, requires permanent or temporary post; 12 years' all-round experience, Dispensing, etc. 90/36, Office of this Paper.

LADY Assistant; eight years' experience; Counter, Stock, Photographic, Window-dressing; permanent, temporary. Davis, 2 Sheen Gate Mansions, E. Sheen, S.W.14.

LADY Dispenser (Hall) desires post; Locum; Doctor or Hospital; 2 years' experience; permanency considered. 93/21, Office of this Paper.

LADY M.P.S., 25, desires post, Assistant or Manageress; near London preferred; disengaged May 29; good all-round experience. 94/17, Office of this Paper.

LOCUM; qualified; first-class experience; Dispensing and Photo; free in two weeks. 93/371, Office of this Paper.

LIVERPOOL or district, preferably; 21; capable and qualified; temporary or permanent. Reply to BM/ZNGJ, W.C.1.

LADY, 25, disengaged, 8 years' Dispensing and Counter experience, Photographic Sales, require situation; season or permanent. Williams, 62 King George's Avenue, Leiston, Suffolk.

LOCUM or part time.—Swiss qualified Pharmacist, with wide Continental and English experience, wishes position in high-class London Pharmacy; fluent French, German, Italian; salary secondary consideration. Apply P.C.B. 20/18, Office of this Paper.

LOCUM.—Abstainer; disengaged; capable; anywhere; booking dates; moderate terms; Whitsuntide free; best reference Carte, The Pharmacy, Rodley, Leeds.

LOCUM; qualified; experienced; good Salesman; anywhere; best references; now free. 80 Brookhank Road, Lewisham S.E.

LOCUM Tenens, M.P.S., D.B.O.A., F.I.O., J.C.Q.O.; lad owner; first-class, all-round experience; reliable; booking or as Manager. "H.," Springfield, Alsager.

LOCUM, qualified, now booking dates; free May 20; good references. Wood, c/o Uriah Wood, Chemist, Arnold Nottingham.

LOCUM.—An experienced Pharmacist, late owner, has open dates, May 14-June 2; London or Home Counties; reliable abstainer. Kershaw, 34 Devonshire Place, Brighton.

LOCUM, qualified, abstainer, 8 years' excellent experience in middle-class trade, excellent references, open to book engagements where assistant kept; free until July 23. G. I. Mason, 72 Wigginton Road, Tamworth, Staffs.

LOCUM; Leeds and district; lady; qualified; 6 years' experience; highest references; free May 6. 90/30, Office of this Paper.

LOCUM wants engagement for fortnight, commencing May 1. "M.P.S.," 29 St. Peter's Avenue, Kettering.

LOCUM or season; experienced Dispenser; also Hospital experience; free May 5. Edward Benson, 4 Alexander Road, South Woodford, Essex.

LOCUM TENENS.—Lady Dispenser, Apothecaries' Hall qualification, seeks post; Hospital, Doctor; experienced; references. 17 Ripplevale Grove, London, N.1.

LOCUM or Manager; 45; qualified; disengaged; recently disposed of own business. Veale, 113 Ditchling Rise, Brighton.

LOCUM; qualified; free May 21 to June 9; reasonable; travelling expenses; registered R.P.U. Lucas, c/o Turner Chemist, Marplebridge, Derbyshire.

LOCUM; otherwise disengaged; active, competent, trustworthy good Salesman, Dispenser; Manchester; reference eight years. "Chemicus," 78 Derby Street, Manchester, M.S.

LOCUM; qualified; total abstainer; reliable; reference bearing every investigation; few more open dates. Jones, 57 Brown Road, E.17.

LOCUM; M.P.S.; dates open, May 7 to 26, July 2 to 28; good references. Write 112 Sumatra Road, N.W.6.

LOCUM or permanency; Birmingham or near; thorough competent; qualified. Brocklesby, 12 St. Joseph's Road, Ward End, Birmingham.

LOCUM.—Qualified Chemist for long or short engagement after 9 months' practically continuous employment in good class businesses; terms moderate. Fitt, 36 St. Stephen's Road, Norwich.

LOCUM; qualified; temporary or permanent; experienced Counter, Dispensing and Photography. "Chemist," 3 Fairmount Road, Brixton Hill, S.W.2.

MANAGER; qualified; first-class Dispensing, Family and Photo experience. 93/37, Office of this Paper.

MANCHESTER.—Manager requires post; good Dispense Salesman, Window-dresser, Photographics; excellent references. "M.P.S.," 66 Norman Road, Rusholme, Manchester.

MANCHESTER DISTRICT.—Qualified lady desires position (afternoons and evenings only) with Doctor, Chemist or Institution. 90/7, Office of this Paper.

M.P.S.; 45; Locum or Manager; disengaged; experience all branches; excellent references. "B. P.," 2 Bouverie Road, Harrow, Middlesex.

PHOTOGRAPHIC and Wireless Assistant, 20, requires post 4 years' experience; also slight knowledge of Drug Counter. Marsh, 2 Church Street, Monmouth.

QUALIFIED Manager, 37, desires post in or near City London experience; single. 84/4, Office of this Paper.

QUALIFIED; 26; disengaged; height 5 ft. 10 in.; energetic keen; Dispensing, General and Analytical experience "Chemist," 44 Canadian Avenue, Catford, S.E.6.

QUALIFIED; single; middle-aged; Super. or Dispenser; full or part time; moderate salary. Barker, 53 Louis Street, Leeds.

QUALIFIED Locum; open till May 21; booking from June 1 onwards. Cropper, c/o Richardson & Co., Chemist, Blackpool.

QUALIFIED; 23; capable man; highly experienced; Counter Dispensing and Photography; permanency or Locum "Chemist," 9 Ramsden Terrace, Leeds.

QUALIFIED Manager or Senior; 33; married; 17 years' experience, Photographic, Dispensing, Family; good prescriber; accommodation essential; disengaged. Dudeney, c/o Hardwick, Chingford Mount Road, E.4.

QUALIFIED 25, desires position with responsibility attached to it, Managership or other position; good knowledge and photography and good experience in Buying; Manchester district preferred, but not essential. 92/12, Office of this Paper.

QUALIFIED Assistant, age 27 years, seeks post in Liverpool or Wallasey (home town) as Manager or Senior Assistant; London and provincial experience; first-class references. 93/29, Office of this Paper.

QUALIFIED, married, thoroughly experienced all round, as Manager, with living accommodation; town or country; permanency. 93/17, Office of this Paper.

QUALIFIED, age 23, tall, good appearance and address. first-class Dispensing and Counter experience, desires position in good-class pharmacy; disengaged in one month. 94/8, Office of this Paper.

QUALIFIED, 28, desires position as Manager or Assistant with view to early purchase. 94/15, Office of this Paper.

QUALIFIED Assistant; first-class Dispensing and Photographic experience; best references. 93/370, Office of this Paper.

RELIEF Assistant, 22 (Part I), requires part-time post evenings 5-8 p.m., all day Saturdays; West-End preferred. "H. S." 77 Bromfelde Road, Clapham.

UNQUALIFIED desires permanency (North); all-round experience, Dispensing, Photographic, Agricultural; conscientious; satisfactory references. Henderson, 61 Castle Street, Kendal.

UNQUALIFIED; 26; disengaged; 7 years' experience. Dispensing, Counter, etc.; excellent references. A. Fairclough, 13 Isla Road, S.E.18.

UNQUALIFIED, 8 years' all-round experience, seeks situation (Chemist-Optician preferred); Counter, Dispensing, Photographic, Window-dressing, and some Optical experience; undeniable references. C. H. Green, 11 Albion Street, South Wigston, near Leicester.

UNTIL October, situation wanted; Rexall, Ucal, Photographic, etc.; Dispenser and Salesman; free in a month. 40 Duncombe Street, Sheffield.

YOUTH, registered, seeks Apprenticeship with good-class Chemist; honest; punctual; willing worker. Write "Optics," 41 King Edward Road, E.9.

YOUNG lady desires post in Dispensing; Hall qualification; Brighton or within travelling distance; methodical and good worker. 91/36, Office of this Paper.

WHOLESALE.

EXPORT Manager, 36, good Buyer and Salesman, linguist, with 10 years' Continental experience, wants responsible position with large firm, with view to extend their export trade, preferably Branded Goods, also Soaps, etc.; willing to travel abroad. "Active," P.C.B. 21/13, Office of this Paper.

LIVE man, 36, qualified, well grounded in Galenical Manufacture on large scale, requires position with good firm; can take charge; Midlands preferred, but not essential. "O. J.," 80/38, Office of this Paper.

PACKER, Despatcher, Time-keeper; excellent references. I. King, 43 MacLise Buildings, Millbank.

PERMANENT position desired, Wholesale or Retail, by very ambitious, energetic, trustworthy man of good education and appearance; has thorough knowledge of the trade; capable of controlling and organising; willing to invest; age 35; married; unqualified; Midlands preferred. "Fidelis," 88/35, Office of this Paper.

REPRESENTATIVE open for change; splendid connection. Wholesale and Retail Chemists, etc., Lancashire and Yorkshire; sales records. 93/33, Office of this Paper.

SCOT, 35, good knowledge of the Drug trade, is desirous of representing firm in Scotland. Replies in first instance to 80/19, Office of this Paper.

YOUNG man, 25, good appearance, worker, 9 years' all-round experience, requires progressive situation with Wholesale firm as Representative or otherwise. Write "A. B.," 93/28, Office of this Paper.

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ADVERTISER, 35, speaks Italian, French and Arabic, 2 years' Wholesale and 6 years' West-End Retail experience, excellent references, seeks post as Travelling Representative. P.C.B. 22/12, Office of this Paper.

NO LIVE FIRMS.—Direct representation in Australia, Canada, Newfoundland and Sydney Islands is offered by advertiser, with large and long experience and good connections in those territories, for sale of Druggist Sundries, Patent Foods, Specifics, Chamois Leather, Sponges, Plasters, and all side lines suitable for drug trade; good results guaranteed if well supported. P.C.B. 22/11, Office of this Paper.

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SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

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